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WATERWAYS

POLAND

MAY 1957

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POLAND WATERWAY STUDY

This study presents information on the navigable inland waterways in Poland. It consists of an overprint on a special base map supplemented by this text.

The textual information includes a short description of the waterway with the addition of a route log. The route log locates and describes locks, ports, loading points, and critical points along the route as well as all structures known to cross the waterway. Underbridge clearances as indicated are based on mean water level.

Changes and additions will be forwarded periodically or as the receipt of valid information warrants.

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WATERWAYS, POLAND

GENERAL STATEMENT

The Polish Waterway System is composed of two principal rivers, the Oder and the Vistula (Wisla), and their navigable tributaries. The Vistula has been under Polish control since WW I, but it still is not a well-developed stream. Rehabilitation has begun, but many difficulties, both technical and economical, remain to be overcome.

The Oder river was acquired in 1945 and gives direct access to the Baltic Sea for the important industrial area of Upper Silesia. This waterway should prove of considerable economic importance and its acquisition gives Poland an active participation in international inland water transport.

These waterways do not compare to the principal East German waterways or to those of the United States. The main differences are in terms of draft limitation which in turn limit the size of craft that may be utilized. In Poland the draft limitations range from 0.7 m to 2 m. This factor limits the size of barges permitted in Poland to 600-700 tons. Many sectors in Poland will permit vessels with a capacity of only 150 tons. More prevalent, however, are barges of the "Breslau" type. These have a loading capacity of 500 tons and draw 1.75 m when fully loaded. "Breslau" type barges comprise 30% of all Oder river barges.

The Polish waterway system is distributed uniformly throughout the country. Both of the main rivers rise near the southern border and meander over the Great Polish Plain generally north to the Baltic Sea. Together with their navigable tributaries inland navigation is possible not only north and south, but also east and west.

The Vistula system, extending over eastern Poland, is the longer of the two, but its importance is far surpassed by the Oder. There are 2 international connections between the Vistula and the inland waterways of the U.S.S.R. One of those is the Canal Augustowski, connecting the

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Polish Narew with the U.S.S.R. Niemen river. This canal will accommodate 200 ton barges. The other connection Poland has with the U.S.S.R. is thru the Bug river. Presently this river will handle barges with a maximum draft of 1 m. Under consideration is a plan to construct 5 dams along this river. Together, these dams will pool 2.2 billion cu m of water. These dams will not only economically improve the southeast area of Poland, but will also increase the importance of the Bug river as an inland waterway to that of the Danube river.

There are several additional construction projects on the Vistula net. On the Wieprz river, there is a project to build a connecting canal to the Krzna river. The canal will be 132 km long, 14 m wide, and will traverse the Lublin district. It is due to be completed in 1957.

Along the Vistula, there is a canal being constructed to the steel complex at Nowa Huta. It will be 1.5 km long, 20 m wide, and 5 m deep. The bottom is sand with rock slab sides. Completion is scheduled for 1958.

Dams were to be constructed at Goczalkowice and 20 km down river from Warsaw. The latter will form a lake of 40 sq km and will back up the waters of the Vistula to a depth of 8 m. As a result of this dam, Warsaw is expected to gain economically from the development of tourist centers and a power plant at the dam site.

The Oder river, the more important of the two, serves the western section of the country and connects via the German Oder-Spree Canal and the Hohenzollern Kanal with the East German waterway system. The Oder is navigable along its entire length in Poland and for a 16 km stretch in Czechoslovakia to the town of Moravska Ostrova. Negotiations are underway between the two countries to complete a canal thru Czechoslovakia from the Oder to the Danube. This canal would begin near Kozle and extend to the Morawa river near Kromerty. It is to be 150 km long, 2.5 m deep, and capable of handling barges with 500 ton capacity. There would be 21 locks on this canal. They would be 200 m long, 8 m wide, 6-8 m high and have lifts of 5-7 m. Unfortunately for Poland, this canal has a very limited benefit to Czechoslovakia, since they already have an outlet to

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the Black Sea. As a result, the Czech government is hesitant about paying 80% of the cost of the canal and at present negotiations are at a standstill.

Dredging and repair of the banks is a constant problem on the Oder. Both East German and Polish dredging vessels are constantly in use. In regard to this and other problems, members of the East German and Polish Waterway administrations meet periodically to discuss problems regarding the Oder. Recently decided was the plan to use the Polish method of lighting for night navigation on the Oder. Buoys with propane gas lamps will be used.

In addition, 5 landing points for barges are planned to be equipped with lighting systems. These are at Aurith (VT 803884), Reitwein (VU 752170), Bleyen (VU 733285), Kienitz (VU 623370), and Guestabiese (VV 544464). Each of the lighting systems will consist of 5 masts at a spacing of 200 meters. The intermediate masts will be equipped with 2 lights each to insure effective illumination of the whole area. The masts will be mounted on concrete pedestals to protect them from flood waters since the banks frequently flood at highwater.

Poland's climate is intermediate between that of western Europe and the U.S.S.R. The predominating influence of the Atlantic Ocean gives a maritime characteristic to the western part of the country with varying mild summers and snowy, cool winters. In the east, maritime effects decrease and long, severe winter, and short, warm summers prevail. Thus, the waters of the Vistula system remain frozen for a longer period than those of the Oder. The Vistula river and its tributaries remain closed for approximately 40 days each year, with the Oder itself open throughout the year. This is accomplished with the use of East German and Polish icebreakers.

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WATERWAYS, POLAND

(Wisla River)
Vistula River Study Route # I

May 1957

South-central Poland (CA 412112) to Danzig Bay (CF 666250).

The Vistula, longest river in Poland, rises in the south-central part of Poland on the northern slopes of the Carpathian mountains, and flows north to the Gulf of Danzig. Despite its great length, it is only of minor importance for commercial inland shipping; however, from a military viewpoint, it is highly useful for the movement of equipment between the Baltic and the Czechoslovakian border.

The river is navigable for 926 km from its mouth near Danzig to Pustynia (CA 740479). It has a sand and gravel bottom with low banks. The width varies from 150 meters to 450 meters with a current of 3-4 km per hour. The maximum draft permitted on the river varies from 0.7 m to 7.3 m. Permissible drafts are 0.7 m from Pustynia to Warsaw; 0.8 m from Warsaw to Torun; 0.9 m from Torun to Biala Gora; and 1.8 m from Biala Gora to the Baltic. Vertical restrictions are unknown except where stated in the route log.

There are several construction projects now in progress. Foremost is a canal leading to the iron and steel complex at Nowa Huta. This canal is to be 1.5 km long, 20 meters wide and 5 meters deep. It will have no locks. The bottom is sand with rock slab sides. There is at present no traffic on the canal, but completion is scheduled for 1958.

Under construction was a new dam at Goczalkowice. It was to have been finished in 1955; however, certification of its completion is not available. Another dam is to be built 20 km down river from Warsaw. This dam will form a lake of 40 sq km, and will back up the Wisla waters to a height of 8 m. In addition to the profits gained by the power plant, Warsaw will reap additional gains from the development of water sports and tourist centers on the new reservoir.

Critical points are located at Schakanburg (CF 664234), where the entrance to the river is so silted that it can be used only by fishing boats, and at Kasemark, where there is a ponton bridge across the river. This bridge consists of 27 pontoons and can be broken in one hour to allow the passage of barges.

Freeze-up usually occurs from January to March. The ice freezes to an approximate depth of 25 cm. In addition, river traffic is menaced during December and April by floating ice.

ROUTE LOG

No.	Item	UTM	km	Remarks
I	Origin	CA 412192	0.0	Remarks: Source of Vistula river.

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WATERWAYS, POLAND

Vistula river Study route # I

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No.	Item	UTM	km	Remarks
2	Bridge	CA 556331	35.0	Crossing: Vistula river Description: Railway; 2 tracks Length: 175 m Type: Steel thru truss No. & length of spans: Unknown Capacity: Unknown Water gap: 75 m Navigable underbridge clearance: Hz: Unknown Vt: 7 m Remarks: None EIC R6 T13
3	Bridge	CA 557332	35.2	Crossing: Vistula river Description: Highway; width 7.2 m Length: 156 m Type: Re-concrete deck No.& length of spans: 5 @ Unknown Capacity: Unknown Water gap: 33 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H10 T13
4	Bridge	CA 712477	67.2	Crossing: Vistula river Description: Highway Length: Unknown Type: Re-concrete beam No.& length of spans: Unknown Capacity: 60 tons Water gap: 60 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H8 T13
5	Bridge	CA 714478	67.4	Crossing: Vistula river Description: Railway Length: Unknown Type: Unknown No.& length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R10 T13 I.2

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Vistula river Study Route # I

<u>No.</u>	<u>Item</u>	<u>UTM</u>	<u>km</u>	<u>Remarks</u>
6	City	CA 740479	70.4	Town: Pustynia Remarks: None
7	Bridge	CA 743475	71.0	Crossing: Vistula river Description: Highway; width 5.4 m Length: 105 m Type: Steel plate web girder No.& length of spans: 11 @ Unknown Capacity: 3 tons Water gap: 105 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: Temporary bridge EIC H9 T13
8	Lock	CA 8444	77.5	Length: 67 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No.& type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L1 T14
9	Lock	CA 9938	107.5	Length: 67 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No.& type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L2 T14
10	Lock	DA 0937	121.7	Length: 67 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No.& type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L3 T14

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Vistula river Study route # I May 1957

No.	Item	UTM	km	Remarks
11	Lock	DA 1338	126.7	Length: 67 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L4 T14
12	Lock	DA 2044	139.0	Length: 67 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L5 T14
13	Bridge	DA 234455	146.4	Crossing: Vistula river Description: Highway; width 7.8 m Length: 120 m Type: Steel girder No. & length of spans: 3 @ Unknown Capacity: Unknown Water gap: 30 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H1 T14
14	Bridge	DA 245445	148.4	Crossing: Vistula river Description: Highway; width 9 m Length: 150 m Type: Steel lattice girder No. & length of spans: 3 @ Unknown Capacity: Unknown Water gap: 30 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H2 T14

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No.	Item	UTM	km	Remarks
15	Bridge	DA 247446	148.6	Crossing: Vistula river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H4 T14
16	Bridge	DA 251449	149.2	Crossing: Vistula river Description: Highway Length: 144 m Type: Steel lattice girder No. & length of spans: 3 @ Unknown Capacity: Unknown Water gap: 30 m Navigable underbridge clearance: Hz: Unknown Vt: 30 m Remarks: None EIC H5 T14
17	Bridge	DA 252451	149.4	Crossing: Vistula river Description: Railway; 2 tracks Length: 300 m Type: Thru plate girder No. & length of spans: 4 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 30-40 m Remarks: None EIC R1 T14
18	Lock	DA 2645	150.0	Length: 67 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L6 T14

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No.	Item	UTM	km	Remarks
19	Bridge	DA 262453	150.5	Crossing: Vistula river Description: Railway; 2 tracks Length: 350 m Type: Thru plate girder No. & length of spans: 5 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 40-50 m Remarks: None EIC R2 T14
20	Port	DA 272453	151.5	Town: Krakow Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 335 m Storage: Unknown Remarks: Winter harbor
21	Lock	DA 3543	163.7	Length: 67 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L7 T14
22	Canal	DA 412444	169.7	Remarks: Branch canal leading to important iron and steel complex at Nowa Huta
23	Bridge	DA 436445	172.3	Crossing: Vistula river Description: Highway; width 6.3 m Length: 330 m Type: Timber trestle No. & length of spans: 35 @ Unknown Capacity: Unknown Water gap: 90 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H7 T14

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No.	Item	UTM	km	Remarks
24	Bridge	DA 439449	172.8	Crossing: Vistula river Description: Railway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R8 T14
25	Lock	DA 5150	182.8	Length: 67 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L8 T14
26	Bridge	DA 546521	197.6	Crossing: Vistula river Description: Highway; width 6.3 m Length: 330 m Type: Timber trestle No. & length of spans: 35 @ Unknown Capacity: Unknown Water gap: 81 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: Pedestrians only EIC H2 T15
27	Lock	DA 6254	209.7	Length: 67 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L1 T15

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No.	Item	UTM	km	Remarks
26	Lock	DA 7357	221.5	Length: 67 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L2 T15
29	Lock	DA 7964	233.0	Length: 67 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L3 T15
30	Lock	DA 8165	235.5	Length: 67 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L4 T15
31	Bridge	EA 055751	270.8	Crossing: Vistula river Description: Highway; width 9 m Length: 450 m Type: Steel girder No. & length of spans: 6 @ Unknown Capacity: Unknown Water gap: 225 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H2 S15

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No.	Item	UTM	km	Remarks
32	Bridge	EA 384964	319.7	Crossing: Vistula river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H7 S16
33	Bridge	EA 398969	321.3	Crossing: Vistula river Description: Highway; width 7.8 m Length: 705 m Type: Timber trestle & steel girder No. & length of spans: 29 @ Unknown Capacity: Unknown Water gap: 540 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H6 S16
34	Port	EB 536142	346.3	Town: Sandomierz Water depth: MW: Unknown; LW: Unknown Loading & unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: None
35	Bridge	EB 536142	346.3	Crossing: Vistula river Description: Highway; width 7.8 m Length: 810 m Type: Steel lattice girder No. & length of spans: 5 @ Unknown Capacity: Unknown Water gap: 270 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H4 S16

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No.	Item	UTM	km	Remarks
36	Bridge	EB 574155	350.3	Crossing: Vistula river Description: Railway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R2 S16
37	City	EB 6129	365.6	Town: Zawichost Remarks: None
38	Bridge	EB 584378	374.9	Crossing: Vistula river Description: Highway; width 7.8 m Length: 1126 m Type: Steel girder deck on wood trusses No. & length of spans: 51 @ Unknown Capacity: 20 tons Water gap: 504 m Navigable underbridge clearance: Hz: Unknown Vt: 12 m Remarks: None EIC H3 R16
39	Port	EB 658965	444.0	Town: Pulawy Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: None
40	Bridge	EB 658965	444.0	Crossing: Vistula river Description: Highway; width 9 m Length: 360 m Type: Steel lattice girder No. & length of spans: 5 @ Unknown Capacity: Unknown Water gap: 319 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H6 Q16 I.10

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No.	Item	UTM	km	Remarks
41	City	EC 578116	463.6	Town: Deblin Remarks: None
42	Bridge	EC 578116	463.6	Crossing: Vistula river Description: Railway; 2 tracks Length: 300 m Type: Steel Parker No. & length of spans: 7 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 8-10 m Remarks: None EIC R1 Q16
43	Bridge	EC 573126	464.6	Crossing: Vistula river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H8 Q16
44	City	EC 172594	544.3	Town: Gora Kalwarie Remarks: None
45	Bridge	EC 172594	544.3	Crossing: Vistula river Description: Highway Length: Unknown Type: Steel girder No. & length of spans: 6 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H14 P15

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No.	Item	UTM	km	Remarks
46	Bridge	EC 160602	545.3	Crossing: Vistula river Description: Highway; width 9 m Length: 660 m Type: Steel deck truss No. & length of spans: 7 @ Unknown Capacity: Unknown Water gap: 540 m Navigable underbridge clearance: Hz: Unknown Vt: 10 m Remarks: None EIC H8 P15
47	Bridge	EC 158607	546.0	Crossing: Vistula river Description: Railway; 1 track Length: approximately 1,000 m Type: Steel bowstring No. & length of spans: 6 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R5 P15
48	City	EC 035859	577.0	Town: Siedlce Remarks: Harbor & Shipyard
49	Bridge	EC 030876	577.85	Crossing: Vistula river Description: Highway; width 21.9 m Length: 495 m Type: Steel arch deck No. & length of spans: 8 @ Unknown Capacity: Unknown Water gap: 390 m Navigable underbridge clearance: Hz: Unknown Vt: 5 m Remarks: None EIC H7 P15

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No.	Item	UTM	km	Remarks
50	Bridge	EC 028878	578.05	Crossing: Vistula river Description: Railway Length: 560 m Type: Thru truss No. & length of spans: 7 @ Unknown Capacity: Unknown Water gap: 300-400 m Navigable underbridge clearance: Hz: Unknown Vt: 7 m Remarks: None EIC R7 P15
51	Port	EC 030887	579.05	Town: Warsaw Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: 3 portal cranes Wharfage: 1,524 m; 5 basins Storage: Unknown Remarks: Acts as winter harbor
52	Bridge	EC 016891	579.85	Crossing: Wisla river Description: Highway; width 18.9 m Length: 473 m Type: Steel end deck No. & length of spans: 6 @ Unknown Capacity: Unknown Water gap: 390 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H1 N15
53	Bridge	EC 009904	581.1	Crossing: Vistula river Description: Railway Length: Unknown Type: Steel lattice & girder No. & length of spans: Unknown Capacity: Unknown Water gap: 378 m Navigable underbridge clearance: Hz: Unknown Vt: 8 m Remarks: None EIC R3 N15

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No.	Item	UTM	km	Remarks
54	Bridge	EC 006907	581.3	Crossing: Vistula river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H12 N15
55	Port	DC 983947	586.3	Town: Zoran Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 3 basins Storage: Unknown Remarks: None
56	Bridge	DC 792086	612.3	Crossing: Vistula river Description: Highway; width 11.7 m Length: 513 m Type: Steel bowstring No. & length of spans: 7 @ Unknown Capacity: Unknown Water gap: 480 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H7 N15
57	City	DC 456042	650.7	Town: Wyszogrod Remarks: None
58	Bridge	DC 456042	650.7	Crossing: Vistula river Description: Highway; width 7.8 m Length: 1,574 m Type: Steel bowstring No. & length of spans: Unknown Capacity: Unknown Water gap: 1,574 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H5 N14

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No.	Item	UTM	km	Remarks
59	Port	DD 112215	692.9	Town: Radziewie Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 2 basins, 1 @ 396 m, 1 @ 518m Storage: Unknown Remarks: Winter harbor
60	Bridge	DD 114216	692.93	Crossing: Vistula river Description: Combination rail and highway; 1 track; width 6 m Length: 270 m Type: Reinforced concrete No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 4 m Remarks: None EIC H1R1 N14
61	Bridge	DD 111217	693.13	Crossing: Vistula river Description: Highway; width 12 m Length: 800 m Type: Steel arch truss No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: Destroyed EIC H4 N14
62	Port	DD 106218	693.53	Town: Plock Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: None

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No.	Item	UTM	km	Remarks
63	Bridge	CD 698371	737.53	Crossing: Vistula river Description: Highway; width 10 m Length: 630 m Type: Steel lattice girder No. & length of spans: 7 @ Unknown Capacity: Unknown Water gap: 585 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H1 M13
64	Port	CD 698377	737.73	Town: Włochawek Water depth: MW: Unknown; LW: Unknown Loading & unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: None
65	Bridge	CD 406762	789.53	Crossing: Vistula river Description: Railway and highway; 2 tracks; width 13.5 m Length: 945 m Type: Steel bowstring girder Capacity: Unknown No. & length of spans: Unknown Water gap: 652 m Navigable underbridge clearance: Hz: Unknown Vt: 6-10 m Remarks: None EIC R1H8 M13
66	Port	CD 398760	790.53	Town: Toruń Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: 2 locomotive cranes Wharfage: 249.6 m Storage: Unknown Remarks: None
67	Port	CD 392754	791.23	Town: Toruń Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 1 basin 400 m X 120 m Storage: Unknown Remarks: None I.16

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No.	Item	UTM	km	Remarks
68	Port	CD 383758	793.23	Town: Toruń Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: Winter harbor
69	Port	CD 330772	801.23	Town: Korzeniec Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: None
70	Bridge	CD 139862	812.23	Crossing: Vistula river Description: Highway Length: Unknown Type: Steel suspension No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 8-10 m Remarks: None EIC H6 M12
71	Port	CD 075895	828.05	Town: Bydgoszcz Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: Winter harbor
72	Bridge	CD 110922	830.75	Crossing: Vistula river Description: Highway Length: 1,300 m Type: Steel truss No. & length of spans: 13 @ Unknown Capacity: Unknown Water gap: 330 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H4 M12 I.17

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Vistula river Study route # I May 1957

No.	Item	UTM	km	Remarks
73	Bridge	CE 284164	862.15	Crossing: Vistula river Description: Highway; width 6-7 m Length: 567 m Type: Steel & timber girder No. & length of spans: 17 @ Unknown Capacity: 10 tons Water gap: 450 m Navigable underbridge clearance: Hz: Unknown Vt: 4-5 m Remarks: None EIC H2 L13
74	Bridge	CE 502287	869.45	Crossing: Vistula river Description: Rail & highway; 1 track; width 6 m Length: 1,100 m Type: Steel arched thru truss No. & length of spans: 11 @ Unknown Capacity: Unknown Water gap: 410 m Navigable underbridge clearance: Hz: Unknown Vt: 9.1 m Remarks: None EIC R1H1 L13
75	Port	CE 306290	869.85	Town: Grudziadz Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: None
76	Bridge	CE 570918	959.0	Crossing: Vistula river Description: Highway; width 17 m Length: 1077 m Type: Steel plate girder No. & length of spans: 9 @ Unknown Capacity: Unknown Water gap: 270 m Navigable underbridge clearance: Hz: Unknown Vt: 12 m Remarks: None EIC H4 K13

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WATERWAYS, POLAND May 1957

No.	Item	UTM	km	Remarks
77	City	CE 566964	964.0	Town: Tczew Remarks: None
78	Bridge	CE 566964	964.0	Crossing: Vistula river Description: Rail and highway; 2 tracks; width 10 m Length: 720 m Type: Steel lattice girder No. & length of spans: 8 @ Unknown Water gap: 232 m Navigable underbridge clearance: Hz: Unknown Vt: 10 m Remarks: None EIC H2 R1 K13
79	Bridge	CF 664144	985.0	Crossing: Vistula river Description: Highway Length: 265.8 m Type: Ponton No. & length of spans: n/a (27 pontons) Capacity: 12 tons Water gap: 265.8 m Navigable underbridge clearance: n/a Remarks: It takes one hour to break bridge for barges. EIC H2 J13
80	City	CF 663232	993.9	Town: Schnakenburg Remarks: Entrance to river at this point usable only by fishing boats (June 1956)
81	Danzig Bay	CF 666250	995.7	Remarks: End of study route

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Przemsza River Study Route IA

May 1957

Brynica River (CA 678674) to Vistula River (CA 737476)

The Przemsza river, most upstream navigable tributary of the Vistula, rises near the town of Zawiercie and flows generally south to the Vistula at Pustynia (CA 737476). It is navigable for a distance of 26 km and will permit vessels with a length of 62 m; 9m beam; and drafts of 0.6 m. Vertical clearances are unknown.

There are reportedly 3 locks on this river, each 67 m long and 9.5 m wide. Their exact location and other data is not known.

Due to ice, navigation is probably not possible between December and February. Exact dates of freeze-up are not known.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	Brynica river	CA 678674	0.0	Remarks: Beginning of study route
2	Lock	CA 7064	2.5	Length: 67 m Width: 9.5 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L1 T13
3	Bridge	CA 687677	3.1	Crossing: Przemsza river Description: Railway; 2 tracks Length: 80 m Type: Latticed truss No. & length of spans: Unknown Capacity: 150 tons Water gap: Unknown Navigable underbridge clearance: Unknown Hz: Unknown Vt: Unknown Remarks: None EIC R2 T13

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Przemsza river Study route # IA

May 1957

No.	Item	UTM	km	Remarks
4	Lock	CA 7459	7.5	Length: 67 m Width: 9.5 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L2 T13
5	Lock	CA 7348	23.0	Length: 67 m Width: 9.5 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L3 T13
6	City	CA 737476	26.1	Town: Pustynia Remarks: End of study route

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WATERWAYS, POLAND

May 1957

Dunajec River Study Route IB

Nowy Targ (DV 308820) to Opatowiec (DA 808658)

The Dunajec river rises in the Carpathian mountains and flows generally north to its confluence with the Vistula river at Opatowiec. There is a 19 km section of this river that forms the border between Czechoslovakia and Poland.

The Dunajec is navigable from Opatowiec to Czochow (DA 7821), a distance of 67 km. It can accommodate vessels with a draft of 0.7 m. Vertical restrictions are unknown, except where noted in the route log.

The average width between the steep banks is 173 m. It has a rock and coarse sand bottom and the current is strong. It is closed by ice for approximately 70 days each year between December and March.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	City	DV 308820	0.0	Town: Nowy Targ Remarks: Beginning of study route
2	Bridge	DV 511749	25.0	Crossing: Dunajec river Description: Highway; width 5.4 m Length: 45 m Type: Timber trestle No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H2 U14
3	Bridge	DV 691889	77.2	Crossing: Dunajec river Description: Highway Length: Unknown Type: Steel thru deck No. & length of spans: 4 @ Unknown Capacity: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H3 U15

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Dunajec river Study route IB

May 1957

No.	Item	UTM	km	Remarks
4	Bridge DV 774972	89.4	Crossing: Dunajec river Description: Railway; 1 track Length: Unknown Type: Thru Howe and bowstring No. & length of spans: 9 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R1 U15	
5	Bridge DV 775978	89.9	Crossing: Dunajec river Description: Highway; width 4.8 m Length: 240 m Type: Steel lattice deck girder No. & length of spans: 9 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H9 U15	
6	Bridge DA 759047	99.4	Crossing: Dunajec river Description: Highway; width 6 m Length: 405 m Type: Re-concrete beam No. & length of spans: 11 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H6 U15	
7	Bridge DA 842241	141.6	Crossing: Dunajec river Description: Highway; width 3 m Length: 240 m Type: Timber trestle No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H3 T15	

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WATERWAYS, POLAND

Dunajec river Study route #IB

May 1957

No.	Item	UTM	km	Remarks
8	Bridge DA 918358	159.1	Crossing: Dunajec river Description: Highway; width 8.4 m Length: 600 m Type: Timber trestle No. & length of spans: 6 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: New 6 span reinforced concrete bridge under construction (1950) EIC H6 T15	
9	Bridge DA 921398	163.3	Crossing: Dunajec river Description: Railway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R2 T15	
10	Vistula river	196.5	Remarks: Confluence of Dunajec and Vistula rivers.	

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WATERWAYS, POLAND

Wisłoka River Study Route IC

May 1957

Wilszna River (EV 392843) to Vistula River (EA 277877)

The Wisłoka river originates in the Carpathian mountains and flows north to Ostrowiec where it joins the Wisła river. It is 143 km long; however, it is navigable only as far as Pilzno (EA 2238), a distance of 68 km.

The navigable portion of the river has a controlling depth of 0.6 m. It has a sand and gravel bottom, with an average width of 140 m.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	Wilszna EV 392843 river		0.0	Remarks: Beginning of study route
2	Bridge EA 332089		34.0	Crossing: Wisłoka river Description: Railway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R4 U16
3	Bridge EA 244312		67.0	Crossing: Wisłoka river Description: Highway Length: 156 m Type: Deck and box girder Capacity: Unknown No. & length of spans: Unknown Water gap: 78 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: Under construction in 1956 EIC R6 T16
4	City EA 224376		75.5	Town: Pilzno Remarks: None

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Wisłoka river Study route # IC

May 1957

No.	Item	UTM	km	Remarks
5	Bridge	EA 224376	75.5	Crossing: Wisłoka river Description: Highway; width 5.5 m Length: 24.3 m Type: Steel thru truss No. & length of spans: 2 @ 12.2 m Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H1 T15
6	Bridge	EA 271442	85.0	Crossing: Wisłoka river Description: Railway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R2 T16
7	Bridge	EA 290462	86.0	Crossing: Wisłoka river Description: Highway Length: 156 m Type: Timber trestle No. & length of spans: Unknown Capacity: Unknown Water gap: 78 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: Under construction EIC H6 T16
8	City	EA 286706	124.0	Town: Mielec Remarks: None

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May 1957

No.	Item	UTM	km	Remarks
9	Bridge	EA 286706	124.0	Crossing: Wisłoka river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: Under construction EIC H3 S16
10	City	EA 277877	143.0	Town: Ostrowiec Remarks: Confluence of Wisłoka and Vistula rivers.

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WATERWAYS, POLAND

San River Study Route # ID

May 1957

U.S.S.R. Border (FV 382300) to Vistula River (EB 597213)

The San river begins in the Carpathian mountains and flows in a general northwesterly direction to its confluence with the Vistula river at EB 597213. It is 437 km long with an average width of 180 m. It will permit ships with a maximum draft of 1.5 m between its confluence at EB 597213 and Stare Miasto; from this point to Przemysl the maximum draft is only 0.4 m. The river is not navigable from Przemysl to its source in the Carpathian mountains.

There are no known locks on this river; however, it is spanned by many bridges. For the most part, restrictive clearances of these bridges are unknown; however, known clearances are listed in the route log.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	City	FV 382300	0.0	Town: Wyz Koniec Remarks: Beginning of study route
2	Bridge	EV 958808	135.0	Crossing: San river Description: Highway; width 14 m Length: 180 m Type: Steel truss No. & length of spans: 3 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 5 m Remarks: None EIC H3 U16
3	Bridge	EV 955840	141.0	Crossing: San river Description: Highway Length: 54 m Type: Steel lattice girder No. & length of spans: 6 @ Unknown Capacity: 20 tons Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 5 m Remarks: None EIC H2 U16

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San River Study Route # ID

May 1957

No.	Item	UTM	km	Remarks
4	Bridge	EV 928867	148.5	Crossing: San river Description: Railway Length: 280 m Type: Steel half thru truss No. & length of spans: 5 @ Unknown Capacity: Unknown Water gap: 200 m Navigable underbridge clearance: Hz: Unknown Vt: 5 m Remarks: None EIC R2 U16
5	Bridge	EV 882902	155.0	Crossing: San river Description: Highway; width 7.2 m Length: 150 m Type: Timber trestle No. & length of spans: Unknown Capacity: Unknown Water gap: 60 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H5 U16
6	City	EV 876914	157.0	Town: Sanok Remarks: None
7	Bridge	FA 275164	270.0	Crossing: San river Description: Highway; width 10 m Length: 100 m Type: Steel girder No. & length of spans: 3 @ Unknown Capacity: Unknown Water gap: 70 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H3 T17
8	City	FA 277165	270.2	Town: Przemysl Remarks: None

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WATERWAYS, POLAND

May 1957

San River Study Route # ID

No.	Item	UTM	km	Remarks
9	Bridge	FA 285174	271.2	Crossing: San river Description: Highway Length: 80-100 m Type: Wood No. & length of spans: Unknown Capacity: 15 tons Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H7 T17
10	Bridge	FA 323176	275.7	Crossing: San river Description: Railway Length: Unknown Type: Steel lattice No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R4 T17
11	Bridge	FA 325356	305.7	Crossing: San river Description: Highway Length: 72 m Type: Steel lattice girder & bowstring girder No. & length of spans: 5 @ Unknown Capacity: Unknown Water gap: 49.5 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H6 T17
12	Bridge	FA 256404	314.7	Crossing: San river Description: Railway; 1 track Length: 50 m Type: Steel thru Howe No. & length of spans: 5 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 6-7 m Remarks: None EIC R6 T17

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No.	Item	UTM	km	Remarks	May 1957
13	Bridge	FA 221426	319.7	Crossing: San river Description: Highway; width 10 m Length: 140 m Type: Steel lattice girder No. & length of spans: 3 @ Unknown Capacity: Unknown Water gap: 50 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H1 T17	
14	City	FA 221426	319.7	Town: Jaroslaw Remarks: None	
15	Bridge	EA 843975	398.7	Crossing: San river Description: Highway; width 4.3 m Length: 155 m Type: Bailey No. & length of spans: 1 @ 47 m, 1 @ 15 m, 1 @ 93 m Capacity: Unknown Water gap: 133 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H1 S16	
16	Bridge	EB 729105	417.7	Crossing: San river Description: Railway Length: Unknown Type: Steel bowstring No. & length of spans: 3 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R1 S16	
17	Vistula river	EB 597213	436.7	Remarks: Confluence of Vistula and San rivers.	

ID.4

WATERWAYS, POLAND

May 1957

Wieprz River Study Route IE
Wieprzow Tarnawacki (FA 730975) to Deblin (EC 579111)

The Wieprz river rises in southeastern Poland and travels in a north-westerly direction to its junction with the Vistula river at Deblin. It is 285 km long and is navigable from its confluence with the Vistula to Krasnystaw, a distance of 186 km. From its confluence with the Vistula river to the junction with the Tyśmienica river, the safe draft is 1.8 m, and from there to Krasnystaw the safe draft is 1.2 m.

The river has clay banks with an average width of 90 m. It has a sand and clay bottom. Freeze up usually occurs between December and March.

A canal connecting the Wieprz and Krzna rivers is reportedly under construction. It is to be 132 km long, 14 m wide, and will traverse the Lublin district. Construction has advanced to such an extent that it is scheduled for opening in 1957. As of now, the exact alignment of this canal is not known. However, construction is presently underway at Krasne (FB 362986), Orzochowo Nowo (FC 394028), Mosciska (FC 4615), and Kropiwi (FC 4815).

ROUTE LOG

No.	Item	UTM	km	Remarks
1	City	FA 730975	0.0	Town: Wieprzow Tarnawacki Remarks: Source of river
2	City	FB 393086	39.0	Town: Zwierzyniec Remarks: None
3	City	FB 4225	62.0	Town: Deszkowice Remarks: None
4	City	FB 529507	99.0	Town: Krasnystaw Remarks: None
5	Bridge	FB 529507	99.0	Crossing: Wieprz river Description: Highway; width 10.8 m Length: 90 m Type: Timber trestle No. & length of spans: 9 @ Unknown Capacity: 17 tons Water gap: 24.6 m Navigable underbridge clearance: Hz: Unknown Vt: 3.5 m Remarks: None EIC H1 R17

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Wieprz river Study Route # IE May 1957

No.	Item	UTM	km	Remarks
6	Bridge FB 417667	125.0	Crossing: Wieprz river Description: Railway; 1 track Length: 130 m Type: Steel thru box girder No.& length of spans: 2 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R5 R17	
7	Bridge FB 394701	130.5	Crossing: Wieprz river Description: Highway; width 6.9 m Length: 159 m Type: Steel bowstring No.& length of spans: Unknown Capacity: Unknown Water gap: 24 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H6 R17	
8	City FB 311860	159.5	Town: Leczna Remarks: None	
9	Bridge FB 311860	159.5	Crossing: Wieprz river Description: Highway Length: 66.6 m Type: Unknown No.& length of spans: 6 @ Unknown Capacity: 15 tons Water gap: 40 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H4 Q17	
10	Bridge FC 134044	193.5	Crossing: Wieprz river Description: Railway Length: 80 m Type: Steel lattice girder No.& length of spans: 3 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 8 m Remarks: None EIC R1 Q17 IE.2	

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No.	Item	UTM	km	Remarks
11	Bridge FC 141066	197.3	Crossing: Wieprz river Description: Highway; width 7.5 m Length: 60 m Type: Timber No.& length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 6 m Remarks: None EIC H3 Q17	
12	Bridge EC 696143	266.4	Crossing: Wieprz river Description: Highway; width 11 m Length: 73 m Type: Steel girder deck No.& length of spans: 1 @ 24.3, 1 @ 29 m, 1 @ 19.8 m Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 18.2 m Remarks: None EIC H9 Q16	
13	Bridge EC 593112	282.9	Crossing: Wieprz river Description: Highway; width 5.4 m Length: 48 m Type: Timber trestle No.& length of spans: 4 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H12 Q16	
14	Bridge EC 587113	283.6	Crossing: Wieprz river Description: Railway; 1 track Length: 162 m Type: Steel lattice deck & steel girder No.& length of spans: 3 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: 2 parallel bridges EIC R3-4 Q16 IE.3	

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WATERWAYS, POLAND

Wieprz River Study Route # IE May 1957

No.	Item	UTM	km	Remarks
15	City	EC 579111	284.3	Town: Deblin Remarks: End of study route

IE.4

WATERWAYS, POLAND

Pilica River Study Route # IF May 1957

Tomaszow Mazowiecki (DC 335090) to Vistula River (EG 165496)

The Pilica river rises in southcentral Poland near Zawiercie and flows northeast to its confluence with the Vistula river at EC 165496. It is navigable from Tomaszow Mazowiecki to the Vistula river, a distance of 138 km.

A maximum draft of 2 m is permitted for vessels. Vertical clearances are in most cases unknown; however, known distances are included in the route log. It has an average width of 197 m with flat, sandy banks. The river bottom is composed of sand and the current is 2 km per hour. The annual freeze up occurs between December and March.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	City	DC 335090	0.0	Town: Tomaszow Mazowiecki Remarks: Beginning of study route
2	Bridge	DC 336093	0.2	Crossing: Pilica river Description: Highway Length: Unknown Type: Timber trestle No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 3.4 m Remarks: None EIC H2 Q14
3	Bridge	DC 341097	0.8	Crossing: Pilica river Description: Railway; 1 track Length: 120 m Type: Steel No. & length of spans: 3 @ Unknown Water gap: Unknown Capacity: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R4 Q14
4	City	DC 463083	17.8	Town: Legnica Remarks: None

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Pilica River Study Route # IF

May 1957

No.	Item	UTM	km	Remarks
5	Bridge	DC 463083	17.8	Crossing: Pilica river Description: Highway; width 6 m Length: 66 m Type: Timber trestle No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H8 Q14
6	City	DC 706180	50.8	Town: Nowe Miasto Remarks: None
7	Bridge	DC 706180	50.8	Crossing: Pilica river Description: Highway Length: 157.5 m Type: Timber trestle No. & length of spans: 9 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 4 m Remarks: None EIC H2 Q15
8	Bridge	DC 968232	84.8	Crossing: Pilica river Description: Highway; width 6.6 m Length: 293 m Type: Re-concrete bowstring No. & length of spans: 4 @ Unknown Capacity: Unknown Water gap: 80 m Navigable underbridge clearance: Hz: Unknown Vt: 8 m Remarks: None EIC H1 Q15
9	City	EC 126365	112.8	Town: Warka Remarks: None

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May 1957

No.	Item	UTM	km	Remarks
10	Bridge	EC 126365	112.8	Crossing: Pilica river Description: Railway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R12 P15
11	Bridge	EC 138362	113.8	Crossing: Pilica river Description: Highway; width 4.2 m Length: 75 m Type: Bailey No. & length of spans: 1 @ 34.5 m, 1 @ 28.5 m Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H3 P15
12	Vistula river	EC 165496	137.6	Remarks: End of study route

IF*2

IF*3

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Tote Vistula Study Route IG

May 1957

Vistula River (CF 656199) to Nowy Port (CF 491303)

The Tote Vistula branches off from the Vistula river at CF 656199 and flows generally northwest to the Danzig Bay at Nowy Port. It is 27 km long and is navigable throughout its length.

From Danzig to Nowy Port it is navigable for ocean going vessels and has a controlling depth of 9 meters. From Danzig to its confluence with the Vistula river, the controlling depth is 2 m. There are 2 locks on this section.

ROUTE LOG

No.	Item	UTM	KM	Remarks
1	Vistula river	CF 656199	0.0	Remarks: Beginning of study route
2	Lock	CF 648203	0.8	Length: 280 m Width: 10 m Depth over sill: Unknown Material: Unknown No.& type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: Parallel to item # 3 EIC L2 J13
3	Lock	CF 648203	0.8	Length: 61 m Width: 12.5 m Depth over sill: Unknown Material: Unknown No.& type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L2 J13
4	City	CF 584244	8.5	Town: Bohnsack Remarks: None
5	Lock	CF 560249	11.7	Length: Unknown Width: 12.5 m Depth over sill: Unknown Material: Unknown No.& type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None IG.1 EIC L1 J13

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Tote Vistula Study Route # IG May 1957

No.	Item	UTM	km	Remarks
6	Bridge	CF 502258	18.0	Crossing: Tote Vistula Description: Railway; 1 track Length: 100 m Type: Lattice girder No. & length of spans: 4 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 8 m Remarks: None EIC R2 J13
7	City	CF 4826	20.0	Town: Danzig (Gdansk) Remarks: Sea Port
8	City	CF 491303	24.0	Town: Nowy Port Remarks: None
9	Danzig Bay	CF 483323	27.0	Remarks: End of study route

IG-2

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Narew River Study Route II May 1957
U.S.S.R. Border (FD 962658) to Vistula River (DC 780095)

The Narew river rises in the Pripet Marshes in the U.S.S.R. and flows in a general westerly direction to its confluence with the Vistula river near Nowy Dwor. The portion of this route in Poland is 388 km long and is navigable along its entire route.

The controlling depth of the Narew varies from 1-2 m. It has low sand and mud banks and varies in width from 35-300 m. The annual freeze-up occurs between December and March, but the exact days are unknown.

There are no locks on the river, but there are a number of bridges. Restricted clearances are for the most part unknown, except where so stated in the route log.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	Beginning	FD 962658	0.0	Remarks: U.S.S.R. Border of route
2	Bridge	FD 503640	54.0	Crossing: Narew river Description: Highway; width 5.4 m Length: 135 m Type: Steel lattice girder No. & length of spans: 2 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 9 m Remarks: None EIC H8 M17
3	Bridge	FD 421645	63.0	Crossing: Narew river Description: Railway; 1 track Length: 140 m Type: Steel truss No. & length of spans: 3 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 9 m Remarks: None EIC R1 M17

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WATERWAYS, POLAND

Narew River Study Route II

May 1957

No.	Item	UTM	km	Remarks
4	Bridge	FD 280745	87.5	Crossing: Narew river Description: Railway; 1 track Length: 160 m Type: Steel box girder No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R2 M17
5	City	FD 280745	87.5	Town: Lapy-Uhowo Remarks: None
6	Bridge	FD 300801	90.0	Crossing: Narew river Description: Highway; width 7.6 m Length: 247.5 m Type: Rolled steel joist No. & length of spans: 7 @ Unknown Capacity: Unknown Water gap: 120 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H1 M17
7	Bridge	FD 309925	119.0	Crossing: Narew river Description: Highway; width 7.3 m Length: 180 m Type: Timber trestle No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H4 M17

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WATERWAYS, POLAND

May 1957

No.	Item	UTM	km	Remarks
8	Bridge	FD 184972	135.0	Crossing: Narew river Description: Highway; width 4.5 m Length: 50 m Type: Wood No. & length of spans: Unknown Capacity: Unknown Water gap: 50 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: Very poor condition EIC H3 M17
9	City	FD 184972	135.0	Town: Tykocin Remarks: None
10	Bridge	FD 038976	142.5	Crossing: Narew river Description: Highway Length: Unknown Type: Timber No. & length of spans: Unknown Capacity: Unknown Water gap: 195 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H13 M17
11	Bridge	ED 941957	152.0	Crossing: Narew river Description: Highway; width 8 m Length: 336 m Type: Timber No. & length of spans: 11 @ Unknown Capacity: 18 tons Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 5 m Remarks: None EIC H9 M17
12	City	ED 9395	153.3	Town: Wizna Remarks: None

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Narew River Study Route # II May 1957

No.	Item	UTM	km	Remarks
13	City	ED 731945	192.0	Town: Lomza Remarks: None
14	Bridge	ED 731945	192.0	Crossing: Narew river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: Under reconstruction EIC H1 M16
15	City	ED 578982	218.0	Town: Nowogrod Remarks: None
16	Bridge	ED 578982	218.0	Crossing: Narew river Description: Combination railway & highway; 1 track; width 10.5 m Length: Unknown Type: Reinforced concrete girder No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H2 M16
17	City	ED 379822	249.0	Town: Ostroleka Remarks: None
18	Bridge	ED 379822	249.0	Crossing: Narew river Description: Highway; width 7.5 m Length: 210 m Type: Re-concrete arch No. & length of spans: 6 @ Unknown Capacity: Unknown Water gap: 147 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H4 M16

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No.	Item	UTM	km	Remarks
19	Bridge	ED 369802	251.0	Crossing: Narew river Description: Railway; 1 track Length: 60 m Type: Steel arch No. & length of spans: 3 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 6 m Remarks: None EIC R3 M16
20	City	ED 275597	277.5	Town: Rozan Remarks: None
21	Bridge	ED 275597	277.5	Crossing: Narew river Description: Highway; width 8 m Length: 262 m Type: Re-concrete arch No. & length of spans: 7 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H10 M16
22	City	ED 066397	328.0	Town: Pultusk Remarks: None
23	Bridge	ED 064387	329.5	Crossing: Narew river Description: Highway; width 6.6 m Length: 283.4 m Type: Steel bailey No. & length of spans: 8 @ Unknown Capacity: Unknown Water gap: 135 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H2 N15

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WATERWAYS, POLAND

May 1957

Narew River Study Route # II

No.	Item	UTM	km	Remarks
24	Bridge	ED 058206	350.5	Crossing: Narew river Description: Highway; width 6 m Length: 135 m Type: Timber trestle No. & length of spans: 21, @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H3 N15
25	City	ED 055185	352.5	Town: Serock Remarks: None
26	City	ED 025123	360.5	Town: Zegrze Remarks: None
27	Bridge	ED 013122	361.5	Crossing: Narew river Description: Highway; width 7.8 m Length: 300 m Type: Steel bowstring No. & length of spans: 4 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 6 m Remarks: None EIC H4 N15
28	Bridge	DC 795100	387.5	Crossing: Narew river Description: Combination Railway & highway; width 7 m Length: 242.4 m Type: Steel lattice girder No. & length of spans: Unknown Capacity: Unknown Water gap: 210 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H5 N15
29	Vistula river	DC 780095	389.3	Remarks: End of study route.

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WATERWAYS, POLAND

Zeran-Zegrze Canal Study Route IIIA

May 1957

The construction of the Zeran-Zegrze Canal is nearing completion. This 17 km waterway will flow north-south and will connect Warsaw with the Bug and Narew rivers. As of November 29, 1956, the Polish river dredger "SMOK III" had excavated 12.8 km of the canal. It was planned to have the main construction work finished by June 1957.

In conjunction with the canal, 2 dams will be built near Warsaw and a river port will be completed in Zeran. This port will have 4 reloading basins, a coal basin for the Zeran power plant and a winter harbor for vessels.

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WATERWAYS, POLAND

Bug River Study Route IIB

May 1957

Kristinopol (LR 0486) to Serock (ED 0414)

The Bug river rises in southwest U.S.S.R. and flows generally north-west to its confluence with the Narew river near Serock. It is 585 km long and is the longest tributary to the Narew. The waterway is navigable from Serock to Kristinopol, a distance of 585 km.

The Bug has a controlling depth of 1 meter. Its width varies from 110-240 m with low sandy banks. The river bottom is sand, mud and clay, and the current is 2.24 km per hour.

Due to the annual freeze-up, the Bug is closed to navigation for an average of 110 days per year. This occurs between December and March.

It is planned to construct 5 dams on this river. After completion, these dams will establish the Bug river as a waterway of equal importance to the Donau or Oder-Donau Canal.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	City	LR 0486	0.0	Town: Kristinopol Remarks: Beginning of study route
2	City	LR 066958	13.0	Town: Sokal Remarks: None
3	City	KS 925190	63.5	Town: Kbylow Remarks: None
4	Bridge	KS 988372	112.5	Crossing: Bug river Description: Highway; width 10.5 m Length: 78 m Type: Re-concrete beam No. & length of spans: Unknown Capacity: Unknown Water gap: 36 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H2 R18
5	City	KS 992390	113.25	Town: Urszula Remarks: None

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WATERWAYS, POLAND

Bug River Study Route # IIB May 1957

No.	Item	UTM	km	Remarks
6	Bridge	FB 967739	170.50	Crossing: Bug river Description: Railway; 2 tracks Type: Lattice girder Length: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R1 R18
7	Bridge	FB 963745	171.10	Crossing: Bug river Description: Highway; width 7.5 m Length: 180 m Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H3 R18
8	Bridge	FB 842864	192.60	Crossing: Bug river Description: Highway; width 4.5 m Length: 82.5 m Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H3 Q18
9	City	FB 778144	234.60	Town: Włodawa Remarks: None

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WATERWAYS, POLAND May 1957

No.	Item	UTM	km	Remarks
10	Bridge	FB 780145	234.80	Crossing: Bug river Description: Highway; width 6 m Length: 216 m Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H2 Q18
11	Bridge	FC 788385	269.80	Crossing: Bug river Description: Highway; width 10.5 m Length: 183 m Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H11 P18
12	Bridge	FC 798559	295.8	Crossing: Bug river Description: Highway; width 7.5 m Length: 198 m Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H10 P18
13	Bridge	FC 813713	319.3	Crossing: Bug river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H14 P18

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WATERWAYS, POLAND

Bug River Study Route # IIB May 1957

No.	Item	UTM	km	Remarks
14	Bridge	FC 819728	321.8	Crossing: Bug river Description: Highway; width 6 m Length: 91.5 m Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H13 P18
15	Bridge	FC 816738	322.8	Crossing: Bug river Description: Highway; width 6 m Type: Deck type Length: 210 m No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H12 P18
16	City	FC 816738	322.8	Town: Brest Litovsk Nad Bugiem Remarks: None
17	Bridge	FC 798745	324.3	Crossing: Bug river Description: Railway; 1 track Length: 250 m Type: Thru truss No. & length of spans: Unknown Capacity: Unknown Water gap: 200 m Navigable underbridge clearance: Hz: Unknown Vt: 4 m Remarks: None EIC R1 P18
18	City	FC 480947	361.3	Town: Niemirów Remarks: None
19	City	FC 390999	396.3	Town: Mielnik Remarks: None

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WATERWAYS, POLAND

Bug River Study Route # IIB May 1957

No.	Item	UTM	km	Remarks
20	Bridge	FD 317045	407.3	Crossing: Bug river Description: Railway; 1 track Length: 160 m Type: Steel thru box girder No. & length of spans: 3 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 15 m Remarks: None EIC R1 N17
21	Bridge	FD 275033	411.8	Crossing: Bug river Description: Highway Length: 187 m Type: Lattice girder & thru bowstring No. & length of spans: 3 @ 22.5 m, 4 @ 30 m Capacity: Unknown Water gap: 90 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H3 N17
22	City	FD 129064	429.3	Town: Drziczyzna Remarks: None
23	Bridge	FD 062087	439.3	Crossing: Bug river Description: Highway; width 5.5 m Type: Timber trestle Length: 166 m No. & length of spans: Unknown Capacity: 30 tons Water gap: 50 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H2 N17

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Bug River Study Route # IIB May 1957

No.	Item	UTM	km	Remarks
24	Bridge	ED 877365	479.3	Crossing: Bug river Description: Highway; width 5.4 m Length: 120 m Type: Timber trestle No. & length of spans: 19 @ Unknown Capacity: Unknown Water gap: 60 m Navigable underbridge clearance: Hz: Unknown Vt: 6 m Remarks: None EIC B3 N16
25	Bridge	ED 691370	501.50	Crossing: Bug river Description: Railway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R1 N16
26	Bridge	ED 672370	503.5	Crossing: Bug river Description: Railway; 1 track Length: 286 m Type: Steel thru box girder No. & length of spans: 5 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 7.5 m Remarks: None EIC R3 N16
27	Bridge	ED 575390	516.5	Crossing: Bug river Description: Highway; width 4.8 m Length: 108 m Type: Steel plate girder No. & length of spans: 11 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H6 N16

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WATERWAYS, POLAND

STUDY ROUTE IIB				
No.	Item	UTM	km	Remarks
28	City	ED 313272	560.8	Town: Wyszkow Remarks: None
29	Bridge	ED 313272	560.8	Crossing: Bug river Description: Highway; width 9 m Length: 243 m Type: Re-concrete beam No. & length of spans: 7 @ Unknown Capacity: 40 tons Water gap: 142.5 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H1 N16
30	Bridge	ED 304267	561.6	Crossing: Bug river Description: Railway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: Destroyed EIC R2 N16
31	Bridge	ED 302259	562.2	Crossing: Bug river Description: Highway Length: Unknown Type: Unknown No. & length of spans: 6 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: Under construction EIC H7 N16
32	City	ED 055185	564.7	Town: Serock Remarks: End of study route

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WATERWAYS, POLAND

May 1957

Biebrza River Study Route # IIC

Augustowski Canal (FE 278422) to Narew River (ED 955976)

The Biebrza river rises in northeast Poland and flows in a general southwesterly direction to its confluence with the Narew river (ED 955976). Its importance is only as a connecting link between the Augustowski canal and the Narew river. It is navigable for a distance of 75 km with a maximum draft of 0.9 m. The average width of the river is 55 m and the current is weak. No locks are present and bridge clearance is listed as 3 m.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	Beginning FE 278422 of canal		0.0	Remarks: Confluence of Biebrza river and Augustowski canal
2	City FE 221329		12.0	Town: Wrociens Remarks: None
3	City FE 147288		21.5	Town: Goniadz Remarks: None
4	Bridge FE 089276		27.7	Crossing: Biebrza river Description: Highway Length: 30 m Type: Timber trestle No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 3 m Remarks: None EIC H2 L17
5	Bridge FE 087274		27.8	Crossing: Biebrza river Description: Railway; 1 track Length: Unknown Type: Steel I beam No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 3 m Remarks: None EIC R2 L17

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WATERWAYS, POLAND

Biebrza River Study Route IIC May 1957

No.	Item	UTM	km	Remarks
6	City	EE 977086	52.6	Town: Brzostowo Remarks: None
7	Narew river	ED 955976	75.2	Remarks: Confluence of Biebrza and Narew rivers

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WATERWAYS, POLAND May 1957

Augustowski Canal Study Route IID Niemen River (FE 612729) to Biebrza River (FE 278422)

The Augustowski canal, Poland's northeasternmost waterway, connects the USSR waterway system with the Polish water routes. It begins on the U.S.S.R. border at FE 674700 and flows to the Biebrza river (FE 278422), via lakes Necko (FE 3070), Biala (FE 350703), Studsentschne (FE 390706), Gorschizke (FE 4775), Orla (FE 487759), Panemo (FE 507755), Kachymo (FE 515747), and Mikaschemo (FE 545742).

Approximately 75 km of this route is in Poland. There are 14 locks along the canal with controlling dimensions for the most part unknown. It has a safe draft of 1.3 meters and can accommodate barges up to 300 tons. The average width is 17 meters and the current is negligible.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	Border	FE 674700	0.0	Remarks: U.S.S.R. border; beginning of study route
2	Lock	FE 587745	9.2	Length: 40.2 m Width: 5.7 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: Single lock EIC L1 K18
3	Lock	FE 523749	15.8	Length: Unknown Width: Unknown Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L11 K17
4	Lock	FE 511748	17.0	Length: Unknown Width: Unknown Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L10 K17

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Augustowsk Canal Study Route # IID May 1957

No.	Item	UTM	km	Remarks
5	Lock	FE 478755	20.5	Length: Unknown Width: Unknown Depth over sill: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Material: Unknown Remarks: Unknown None EIC L9 K17
6	Lock	FE 454729	24.6	Length: Unknown Width: Unknown Depth: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L8 K17
7	Lock	FE 412710	31.1	Length: Unknown Width: Unknown Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L7 K17
8	Lock	FE 378709	34.6	Length: Unknown Width: Unknown Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L6 K17
9	City	FE 307687	44.0	Town: Augustow Remarks: None
10	Lock	FE 318698	45.2	Length: Unknown Width: Unknown Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L2 K17

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No.	Item	UTM	km	Remarks
11	Lock	FE 296637	50.2	Length: 40.2 m Width: 5.7 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: Single lock EIC L3 K17
12	Lock	FE 263594	56.4	Length: Unknown Width: Unknown Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L4 K17
13	Lock	FE 273521	63.7	Length: 40.2 m Width: 5.7 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: Modern lock supposedly under construction EIC L1 K17
14	City	FE 272440	73.0	Town: Polkowo Remarks: None
15	Lock	FE 276420	75.8	Length: Unknown Width: Unknown Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L2 K17
16	Biebrza river	FE 278422	76.0	Remarks: Confluence of canal and river

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WATERWAYS, POLAND

Nogat River Study Route # III

May 1957

Biala Gora (CE 608762) to Frisches Haff (CF 8715)

This 57 km waterway has its source at Biala Gora and flows in a north-easterly direction to Frisches Haff (CF 8715). It is navigable throughout its length for vessels drawing 1.8 m of water. Permissible heights are not known except where noted in the route log.

The controlling depth is 2 m with an average width of 152 m. It has a sandy bottom and the current is negligible. The route is frozen for approximately 90 days each year between December and March.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	Origin	CE 608762	0.0	Remarks: Beginning of study route
2	Lock	CE 609763	0.4	Length: 57.3 m Width: 9.4 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 2 m Cycle: Unknown Remarks: None EIC L1 K13
3	Lock	CE 684866	14.0	Length: 57.6 m Width: 9.5 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 2 m Cycle: Unknown Remarks: None EIC L2 K13
4	Bridge	CE 706893	17.7	Crossing: Nogat river Description: Highway Length: Unknown Type: Steel deck girder No. & length of spans: 4 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H10 K13

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Nogat River Study Route # III May 1957

No.	Item	UTM	km	Remarks
5	Bridge	CE 709903	18.7	Crossing: Nogat river Description: Highway; width 12 m Length: 144 m Type: Re-concrete beam No. & length of spans: 5 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H12 K13
6	Bridge	CE 712906	19.1	Crossing: Nogat river Description: Railway Length: Unknown Type: Steel thru truss No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R2 K13
7	Lock	CE 744897	23.5	Length: 57.3 m Width: 9.4 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 2.5 m Cycle: Unknown Remarks: None EIC L3 K13
8	Lock	CE 839986	37.4	Length: 57.6 m Width: 9.5 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 2 m Cycle: Unknown Remarks: None EIC L4 K13

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WATERWAYS, POLAND

Nogat river Study route # III May 1957

No.	Item	UTM	km	Remarks
9	Bridge	CF 860044	44.7	Crossing: Nogat river Description: Highway; width 9 m Length: 203.4 m Type: Re-concrete beam No. & length of spans: 5 @ Unknown Capacity: Unknown Water gap: 194.4 Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H11 K13
10	Frisches Haff	CF 8715	56.2	Remarks: Confluence of Nogat river and Frisches Haff

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WATERWAYS, POLAND

Frisches Haff Study Route III A

May 1957

The Frisches Haff is a spacious lagoon in north-central Poland. It is separated from the Gulf of Danzig by a 64 km sand-spit, Mierzeja Wislana, and joins the Soviet waterway network via the Pregol.

The lagoon is 80 km long and is navigable throughout its entire length. There are no bridges or locks on the lagoon so traffic is limited only by the controlling depth of 2 m. The banks are hard and flat with a bottom of clay, mud and sand. The average width is 8 km.

Ice is on the lagoon between December and April; however, with the use of icebreakers, it is navigable throughout the year. Ice is the heaviest during the month of February.

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WATERWAYS, POLAND

Elbing Wisla Study Route IIIB

May 1957

Wisla River (CF 665154) to Frisches Haff (CF 859149)

This 25 km waterway branches off the Wisla river at CF 665154 and flows east to the Frisches Haff. It has a depth of 2 m and a capacity of 400 tons. Freeze-up data for this route is unknown.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	Wisla river	CF 665154	0.0	Remarks: Beginning of study route
2	Lock	CF 667155	0.2	Length: 61 m Width: 12.5 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None
3	Frisches Haff	CF 859149	24.12	Remarks: End of study route

EIC L3 J13

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WATERWAYS, POLAND

Elbing River Study Route IIIC

May 1957

Marienburger Wyck (DE 969983) to Frisches Haff (CF 954144)

This short 16 km waterway begins at the Druzno lake and flows north into the Frisches Haff. It has a controlling depth of 3.5 m and is periodically closed between December and March due to ice.

There is at present no shipping on this river. It is blocked by a destroyed bridge at CF 951025.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	Origin	DE 969983	0.0	Remarks: Beginning of study route
2	Bridge	CF 950010	3.2	Crossing: Elbing river Description: Railway; 2 tracks Length: 120 m Type: Lattice girder No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 8 m Remarks: None EIC R1 K14
3	Bridge	CF 951013	3.6	Crossing: Elbing river Description: Highway; width 12 m Length: 300 m Type: Plate girder No. & length of spans: 4 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 15 m Remarks: None EIC H4 K14
4	Bridge	CF 951025	4.8	Crossing: Elbing river Description: Highway; width 8 m Length: 60 m Type: Wood No. & length of spans: 3 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 1.5 m Remarks: Central span slides to one side EIC H3 K14

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Elbing River Study Route # IIIC

May 1957

No.	Item	UTM	km	Remarks
5	Bridge	CF 951029	5.2	Crossing: Elbing river Description: Highway; width 8 m Length: 70 m Type: Plate girder draw No. & length of spans: 3 @ Unknown Capacity: 35 tons Water gap: Unknown Navigable underbridge clearance: Rz: Unknown Vt: 4-5 m Remarks: None EIC H2 K14
6	Frisches Haff	CF 954144	16.0	Remarks: End of Study Route

IIIC.2

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Kraffohl Canal STUDY ROUTE III D

May 1957

Rothbude (CF 945048) to Zeyer (CF 907066)

This short 5.5 km canal connects the Nogat and Vistula Elblaska rivers. It can accommodate craft drawing 2.4 m of water, 55 m long, and with beams of 8 m. Average width between its flat, diked banks is 33 m. The bottom is silt and the current is negligible. It is frozen between December and March, but the exact dates are not known.

A route log is not necessary since there are no structures or port facilities on the canal.

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Warta River Study Route # IV

May 1957

Zawiercie (CA 910932) to Oder River (VU 736282)

The Warta river has its source near the town of Zawiercie (CA 910932) and flows generally northwest to its confluence with the Oder river near Kłodzko. It is the largest and most important tributary of the Oder. It is 754 km long with a navigable length of 500 km. The banks are relatively flat and the bottom is sand and clay.

The Warta has an average width of 100 meters and a safe draft of 2.3 m from Kłodzko (VU 736280) to Poznań (XU 3008); from here to Sieradz, the average width is 80 to 100 m with a safe draft of 0.6 to 0.8 m. There are no locks on this river and vertical clearances are unknown except where stated in the route log.

Maximum size of vessels between Kłodzko and Zawiercie is 65 m X 8.2 m with a maximum speed of 20 km/hr, and from Zawiercie to Sieradz the limiting size is 55 m X 8 m, with a maximum speed of 12 km per hour.

The number of days that the river is frozen varies greatly. At Sieradz the average date of closing is 13 December, but elsewhere, the periods of freezing are varied.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	City	CA 910932	0.0	Town: Zawiercie Remarks: Beginning of study route
2	Bridge	CB 71802196	44.7	Crossing: Warta river Description: Railway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R55 S13

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Warta river Study Route # IV May 1957

No.	Item	UTM	km	Remarks
3	Bridge	CB 896537	101.7	Crossing: Warta river Description: Highway Length: Unknown Type: Unknown No.& length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H1 R14
4	Bridge	CB 546635	152.2	Crossing: Warta river Description: Railway Length: Unknown Type: Unknown No.& length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R3 R13
5	Bridge	CB 513647	156.2	Crossing: Warta river Description: Highway Length: 45 m Type: Timber trestle No.& length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H4 R13
6	Bridge	CB 439731	189.7	Crossing: Warta river Description: Highway; width 7.2 m Length: 75 m Type: Wood No.& length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H3 R13

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Warta River	Study Route # IV	May 1957		
No.	Item	UTM	km	Remarks
7	Bridge	CB 456841	203.2	Crossing: Warta river Description: Highway; width 7.8 m Length: 108 m Type: Timber trestle No.& length of spans: 10 @ Unknown Capacity: 15 tons Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H2 Q13
8	Bridge	CB 482954	217.2	Crossing: Warta river Description: Highway; width 9 m Length: 135 m Type: Timber trestle No.& length of spans: 12 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H8 Q13
9	Bridge	CC 500034	227.2	Crossing: Warta river Description: Highway; width 9 m Length: 120 m Type: Timber trestle No.& length of spans: 12 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H9 Q13
10	Bridge	CC 459191	250.9	Crossing: Warta river Description: Highway; width 10.5 m Length: 225 m Type: Reinforced concrete beam No. & length of spans: 9 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H4 Q13

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Warta River Study Route # IV

May 1957

No.	Item	UTM	km	Remarks
11	Port	CC 436195	254.0	Town: Sieradz Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: None
12	Bridge	CC 435199	254.4	Crossing: Warta river Description: Railway; 2 tracks Length: 200 m Type: Steel plate girder No. & length of spans: 2 @ 60 m; 1 @ 70m Capacity: 100 tons Water gap: 200 m Navigable underbridge clearance: H: Unknown Vt: 5 m Remarks: None EIC R2 Q13
13	Bridge	CC 373320	271.4	Crossing: Warta river Description: Highway; width 8 m Length: Unknown Type: Thru type lattice girder No. & length of spans: Unknown Capacity: Unknown Water gap: 116 m Navigable underbridge clearance: H: Unknown Vt: Unknown Remarks: None EIC H6 Q13
14	Bridge	CC 487601	309.2	Crossing: Warta river Description: Highway Length: Unknown Type: Concrete No. & length of spans: 5 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: H: Unknown Vt: Unknown Remarks: None EIC H7 P13

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Warta River Study Route # IV

May 1957

No.	Item	UTM	km	Remarks
15	Bridge	CC 486606	309.6	Crossing: Warta river Description: Highway; width 5.7 m Length: 90 m Type: Timber trestle No. & length of spans: 7 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: H: Unknown Vt: Unknown Remarks: None EIC H2 P13
16	Bridge	CC 385858	339.6	Crossing: Warta river Description: Highway; width 6.5 m Length: 200 m Type: Timber No. & length of spans: 5 @ 40 m Capacity: 19 tons Water gap: Unknown Navigable underbridge clearance: H: Unknown Vt: Unknown Remarks: None EIC H8 P13
17	Bridge	CC 126885	372.7	Crossing: Warta river Description: Highway; width 8 m Length: 120 m Type: Deck type lattice girder No. & length of spans: 4 @ Unknown Capacity: Unknown Water gap: 30 m Navigable underbridge clearance: H: Unknown Vt: Unknown Remarks: None EIC H1 P12
18	Bridge	XT 703763	434.5	Crossing: Warta river Description: Railway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: H: Unknown Vt: Unknown Remarks: None EIC R2 P12

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Warta River Study Route # IV				May 1957
No.	Item	UTM	km	Remarks
19	Bridge	XT 638742	442.2	Crossing: Warta river Description: Highway; width 4.8 m Length: 144 m Type: Concrete beam & plate girder (steel) Water gap: 45 m No. & length of spans: 6 @ Unknown Capacity: Unknown Navigable underbridge clearance: Hz: 2 @ 24.2 m Vt: 4.0 m Remarks: None EIC H4 P12
20	Bridge	XT 594747	447.7	Crossing: Warta river Description: Railway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 3 @ 29.5 m Vt: 3.26 m Remarks: None EIC R1 P12
21	Bridge	XT 383734	471.7	Crossing: Warta river Description: Highway; width 9.3 m Length: 150 m Type: Timber truss & steel bowstring No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 40.1 m Vt: 4.16 m Remarks: None EIC B3 P11
22	Port	XU 312038	513.7	Town: Starleka Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 289 m Storage: Unknown Remarks: None

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Warta River Study Route # IV				May 1957
No.	Item	UTM	km	Remarks
23	Bridge	XU 312041	513.9	Crossing: Warta river Description: Railway; 2 tracks Length: Unknown Type: Steel lattice girder No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 32.7 m Vt: 9.4 m Remarks: None EIC R1 N11
24	Bridge	XU 320073	516.9	Crossing: Warta river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 70 m Vt: 5.48 m Remarks: None EIC H14 N11
25	Bridge	XU 323078	517.5	Crossing: Warta river Description: Highway Length: 115 m Type: Steel girder & masonry arch No. & length of spans: 1 @ 23 m; 2 @ 46 m Capacity: Unknown Water gap: 33 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC B5 N11
26	Bridge	XU 322063	517.9	Crossing: Warta river Description: Railway; 1 track Length: 70 m Type: Steel bowstring truss No. & length of spans: 1 @ 70 m Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 22 m Vt: 3.85 m Remarks: None EIC R5 N11

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Warta River Study Route # IV

May 1957

No.	Item	UTM	km	Remarks
27	Bridge	XU 319085	518.3	Crossing: Warta river Description: Highway; width 10 m Length: 117 m Type: Re-concrete beam & steel bow-string No. & length of spans: 1 @ 50.4 @ 16.6m Capacity: Unknown Water gap: 33 m Navigable underbridge clearance: Hz: 1 @ 10.5 m Vt: 2.5 m Remarks: None EIC H4 N11
28	Port	XU 321089	518.4	Town Poznan Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: 6 cranes Wharfage: 737.5 m Storage: Unknown Remarks: None
29	Bridge	XU 320090	518.7	Crossing: Warta river Description: Highway; width 25 m Length: 93 m Type: Steel & timber No. & length of spans: Unknown Capacity: Unknown Water gap: 47 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H17 N11
30	Bridge	XU 319094	519.0	Crossing: Warta river Description: Railway; 2 tracks Length: 100 m Type: Thru plate girder No. & length of spans: 3 @ Unknown Capacity: Unknown Water gap: 65 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R2 N11

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Warta River Study Route # IV

May 1957

No.	Item	UTM	km	Remarks
31	Bridge	XU 335108	521.0	Crossing: Warta river Description: Highway; width 8.3 m Length: 200 m Type: Steel lattice girder No. & length of spans: 7 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 6 m Remarks: None EIC H1 N11
32	Bridge	XU 328232	535.0	Crossing: Warta river Description: Highway; width 5.4 m Length: 75 m Type: Steel girder deck No. & length of spans: 6 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H16 N11
33	Bridge	XU 232343	553.0	Crossing: Warta river Description: Railway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 43.5 m Vt: 5.65 m Remarks: None EIC R19 N11
34	Bridge	XU 224344	553.7	Crossing: Warta river Description: Highway; width 10.5 m Length: 90 m Type: Steel lattice girder No. & length of spans: 5 @ Unknown Capacity: Unknown Water gap: 30 m Navigable underbridge clearance: Hz: Unknown Vt: 5.2 m Remarks: None EIC H2 N11

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Warta River Study Route # IV

May 1957

No.	Item	UTM	km	Remarks
35	Bridge	XU 031413	576.9	Crossing: Warta river Description: Highway Length: 200 m Type: Timber No. & length of spans: 12 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H11 N11
36	Bridge	WU 929413	588.3	Crossing: Warta river Description: Highway; width 9.3 m Length: 120 m Type: Timber trestle No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H15 N11
37	Bridge	WU 924409	588.9	Crossing: Warta river Description: Railway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R14 N11
38	Bridge	WU 604291	629.4	Crossing: Warta river Description: Highway; width 5.6 m Length: 77 m Type: Timber trestle No. & length of spans: 8 @ Unknown Capacity: Unknown Water gap: 50 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H1 N10 IV.10

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WATERWAYS, POLAND

May 1957

No.	Item	UTM	km	Remarks
39	Port	WU 175421	697.5	Town: Landsberg Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: Can accommodate 700 ton, 400 ton, and 200 ton barges; has 4 slipways and repair facilities
40	Port	WU 164426	698.5	Town: Landsberg Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 1,521 m Storage: Unknown Remarks: None
41	Bridge	WU 165424	698.6	Crossing: Warta river Description: Highway; width 9.9 m Length: 120 m Type: Reinforced concrete arch No. & length of spans: 4 @ Unknown Capacity: Unknown Water gap: 102 m Navigable underbridge clearance: Hz: Unknown Vt: 6.08 m Remarks: None EIC H1 N9
42	Bridge	WU 001337	725.2	Crossing: Warta river Description: Highway; width 14 m Length: Unknown Type: Bailey No. & length of spans: 5 @ Unknown Capacity: Unknown Water gap: 60 m Navigable underbridge clearance: Hz: Unknown Vt: 5.88 m Remarks: None EIC H6 N9

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Warta River Study Route # IV

May 1957

No.	Item	UTM	km	Remarks
43	Bridge	VU 762263	750.9	Crossing: Warta river Description: Highway; width 9 m Length: 180 m Type: Steel lattice girder No. & length of spans: 8 @ Unknown Capacity: 60 tons Water gap: 150 m Navigable underbridge clearance: Hz: Unknown Vt: 6.21 m Remarks: None EIC H4N9
44	Bridge	VU 760264	751.1	Crossing: Warta river Description: Railway; 1 track Length: 180 m Type: Steel girder No. & length of spans: 5 @ Unknown Capacity: E45 Water gap: 110 m Navigable underbridge clearance: Hz: Unknown Vt: 3.8 m Remarks: None EIC R1 N9
45	Bridge	VU 756267	751.6	Crossing: Warta river Description: Railway; 1 track Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 4.64 m Remarks: 2 parallel similar structures EIC R2 N9
46	Port	VU 7526	752.0	Town: Klstrin Water depth: MW: Unknown; LW: Unknown Loading & unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: None
47	Oder river	VU 736282	754.0	Remarks: End of study route

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Notec River Study Route # IVA

May 1957

Jezioro Goplo (CD 215300) to Zantoch (WU 267433)

The Notec river has its origin near Jezioro Goplo (CD 215300), and flows north and west to its confluence with the Warta river near Zantoch. It is navigable from the Warta river to Jezioro Goplo, a distance of 298 km. Its importance stems from its role as a part of the connection between the Oder and Vistula rivers.

The width varies from 24-50 m with low to steep banks. The bottom is sand and peat, and its current is negligible.

The river will accommodate vessels up to 500 tons from Zantoch to Naklo, where the controlling depth is 2.3 m. From Naklo to Jezioro Goplo the controlling depth drops to 0.6 m and will allow passage of vessels up to 200 tons.

Restrictive bridge clearances are for the most part unknown except where so stated in the route log. Navigation is hindered for approximately 75 days each year between December and March due to ice.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	Lake	CD 215300	0.0	Remarks: Jezioro Goplo; beginning of study route.
2	Lock	CD 040542	32.0	Length: 42 m Width: 4.9 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 1.8 m Cycle: Unknown Remarks: None EIC L2 M12
3	Lock	XU 960708	65.5	Length: 42 m Width: 4.9 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 1.8 m Cycle: Unknown Remarks: None EIC L3 M12

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Notec River Study Route # IVA

May 1957

No.	Item	UTM	km	Remarks
4	Bridge	XU 740903	116.5	Crossing: Notec river Description: Highway; width 8 m Length: 49.2 m Type: Steel deck girder No. & length of spans: 3 @ Unknown Capacity: Unknown Water gap: 36 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H15 M12
5	City	XU 735904	117.0	Town: Naklo Remarks: None
6	Bridge	XU 731902	117.4	Crossing: Notec river Description: Railway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R20 M12
7	Lock	XU 716894	119.4	Length: 58 m Width: 9.7 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 2.7 m Cycle: Unknown Remarks: None EIC L9 M12
8	Lock	XU 622856	127.7	Length: 58 m Width: 9.7 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 2.8 m Cycle: Unknown Remarks: None EIC L4 M12

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May 1957

No.	Item	UTM	km	Remarks
9	Lock	XU 424828	142.5	Length: 58 m Width: 9.7 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L4 M11
10	Bridge	XU 260798	169.4	Crossing: Notec river Description: Highway; width 7.2 m Length: 45 m Type: Timber trestle No. & length of spans: 9 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 10 m Vt: Unknown Remarks: None EIC H17 M11
11	Bridge	XU 236802	172.15	Crossing: Notec river Description: Railway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 45 m Vt: 4.6 m Remarks: None EIC R11 M11
12	Bridge	XU 161799	180.15	Crossing: Notec river Description: Highway; width 8.3 m Length: 50 m Type: Reinforced concrete beam No. & length of spans: 3 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 17 m Vt: 4.1 m Remarks: None EIC H12 M11

IVA.3

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Noteć river Study Route # IVA

No.	Item	UTM	km	Remarks
13	City	XU 157800	180.45	Town: Ujście Remarks: None
14	Lock	XU 10408025	186.15	Length: 58 m Width: 9.7 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 1.87 m Cycle: Unknown Remarks: None EIC L1 M1
15	Lock	XU 06607625	191.55	Length: 58 m Width: 9.7 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 1.84 m Cycle: Unknown Remarks: None EIC L5 M1
16	Lock	XU 05257180	196.48	Length: 58 m Width: 9.7 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 1.59 m Cycle: Unknown Remarks: None EIC L6 M1
17	Lock	XU 05026678	202.15	Length: 59.5 m Width: 8.3 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 1.69 m Cycle: Unknown Remarks: None EIC L2 M1

IVA.4

No.	Item	UTM	km	Remarks
18	Bridge	XU 046634	206.15	Crossing: Noteć river Description: Highway; width 7.5 m Length: 63 m Type: Steel lattice girder No. & length of spans: 1 @ 63 m Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 42.8 Vt: 4 m Remarks: None EIC H8 M1
19	Port	XU 045632	206.29	Town: Czarnków Water depth: MW: 1 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 80 m Storage: Unknown Remarks: None
20	Lock	XU 017617	210.4	Length: 58 m Width: 9.7 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 2.19 m Cycle: Unknown Remarks: None EIC L3 M1
21	City	XU 012608	212.56	Town: Guhren Remarks: None
22	City	WU 977603	217.53	Town: Cischkowo Remarks: None
23	Lock	WU 95806067	219.46	Length: 58 m Width: 9.7 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 1.96 m Cycle: Unknown Remarks: None EIC L7 M1

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Noteć river Study Route # IVA

May 1957

No.	Item	UTM	km	Remarks
24	Lock	WU 90686113	225.16	Length: 57.4 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 1.55 m Cycle: Unknown Remarks: None EIC L8 M1
25	Lock	WU 84656092	231.85	Length: 57.4 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 2.03 m Cycle: Unknown Remarks: None EIC L2 M10
26	City	WU 826603	233.52	Town: Wreschin Remarks: None
27	Lock	WU 79626177	237.62	Length: 57.4 m Width: 9.6 m Depth over sill: Unknown Material: Unknown Lifts: 1 @ 1.93 m Cycle: Unknown Remarks: None EIC L3 M10
28	City	WU 791617	237.93	Town: Wielen Remarks: None
29	Bridge	WU 725585	246.03	Crossing: Noteć river Type: Steel bowstring Description: Railway; 2 tracks Length: 80 m No. & length of spans: 4 @ 20 m Capacity: Unknown Water gap: 80 m Navigable underbridge clearance: Hz: 2 @ 10 m Vt: 2.1 m Remarks: None EIC R1 M10

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May 1957

No.	Item	UTM	km	Remarks
30	Lock	WU 71965803	246.73	Length: 57.4 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 1.6 m Cycle: Unknown Remarks: None EIC L4 M10
31	Port	WU 695570	248.76	Town: Drawsko Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 1,402 m Storage: Unknown Remarks: None
32	Lock	WU 677577	250.64	Length: 57.4 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 1.37 m Cycle: Unknown Remarks: None EIC L1 M10
33	Port	WU 671575	251.16	Town: Kreuz Water depth: MW: 1.9 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 760 m Storage: 1350 cu m Remarks: None
34	City	WU 61835571	257.1	Town: Alt Beelitz Remarks: None
35	City	WU 565562	262.53	Town: Vordamm Remarks: None
36	City	WU 556565	263.46	Town: Muhlendorf Remarks: None
37	Junction	WU 53505635	271.1	Remarks: Alte Netze. It is navigable a distance of 5 km.

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Notec River Study Route # IVA May 1957

No.	Item	UTM	km	Remarks
38	City	WU 50645188	271.1	Town: Trebisich Remarks: None
39	Port	WU 276433	297.6	Town: Zantoch Water depth: MW: 2.0 m; LW: Unknown Loading & unloading equipment: Unknown Wharfage: 150 m Storage: Stockyards, 3,000 sqm Remarks: None
40	Warta river	WU 2743	297.9	Remarks: End of study route

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Gorni Notecki Canal Study Route # IVB May 1957
Notec River (XU 994737) to Bydgoski Canal (XU 905924)

This short 25 km canal joins the Notec river with the Bydgoski canal.
This permits the bypassing of a very shallow section of the Notec river.

It is 20 meters wide and can accommodate barges with a draft of
1.5 m. Navigation is limited for approximately 75 days each year by ice.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	Notec river	XU 994737	0.0	Remarks: Beginning of canal
2	Lock	XU 99557395	0.25	Length: 42.6 m Width: 5 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 3.1 m Cycle: Unknown Remarks: None EIC L5 M12
3	Lock	XU 98367655	3.50	Length: 42.6 m Width: 5 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 3 m Cycle: Unknown Remarks: None EIC L6 M12
4	Lock	XU 94857988	8.62	Length: 42.6 m Width: 5 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 1.1 m Cycle: Unknown Remarks: None EIC L7 M12

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Gorny Notecki Canal Study Route # IVB

May 1957

No.	Item	UTM	km	Remarks
5	Lock	XU 94438033	9.22	Length: 42.6 m Width: 5 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 1.3 m Cycle: Unknown Remarks: None EIC L8 M12
6	Lock	XU 91059100	23.34	Length: 42.6 m Width: 5 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 2.8 m Cycle: Unknown Remarks: None EIC L3 M12
7	Lock	XU 90849126	23.71	Length: 42.6 m Width: 5 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 1.6 m Cycle: Unknown Remarks: None EIC L4 M12
8	Bydgoski Canal	XU 905924	24.96	Remarks: End of study route

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Morzyslawski Canal Study Route # IVC

May 1957

Noteo River (OD 220134) to Warta River (CC 15269018)

This 25 km canal was opened to traffic in 1947 and connects the Noteo and Warta rivers. Further information about the channel characteristics is not available.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	Noteo river	CD 220134	0.0	Remarks: Beginning of study route
2	Lock	CD 21991340	0.01	Length: 55 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L1 N13
3	Lock	CD 20591174	2.21	Length: 55 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L2 N13
4	Lake	CD 192097	4.61	Name: Slesinskie Length: 4.5 km Width: 100-200 m Remarks: None
5	Bridge	CD 17080590	9.13	Crossing: Morzyslawski Canal Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Unknown Hz: Unknown Vt: Unknown Remarks: None EIC H3 N12

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Morzyślowski Canal Study Route # IVC May 1957

No.	Item	UTM	km	Remarks
6	Lake	CD 166030	12.43	Name: Mikorzynskie Length: 5.5 km Width: 200-550 m Remarks: None
7	City	CD 16360012	12.48	Town: Lezyn Remarks: None
8	Lake	CC 14379813	16.1	Name: Patnowskie Length: 4 km Width: 400-1000 m Remarks: None
9	Lock	CC 149970	17.38	Length: 56.3 m Width: 9.7 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L1 N12
10	Bridge	CC 16479180	23.00	Crossing: Morzyślowski Canal Description: Railway; 2 tracks Length: 100 m Type: Concrete girder No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 7-8 m Remarks: None EIC R1 P12
11	Lock	CC 15269018	25.12	Length: 55 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L1 P12
12	Warta river	CC 15269018	25.12	Remarks: End of study route

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Bydgoski Canal Study Route IVD May 1957

Braha River (XU 99009187) to Noteć River (XU 74888999)

The Bydgoski Canal begins at the Braha river (XU 99009187) and flows west to the Noteć river near Nakło. It is 25 km long and averages 20 m in width. Maximum draft permitted is 1.6 m with the vertical clearance limited to 4 m. It is closed by ice approximately 90 days each year.

The canal is the only artificial sector of the vital connection between the Oder and Vistula rivers. Destruction of its locks would completely disrupt traffic between these two rivers.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	Braha river	XU 99009187	0.0	Remarks: Beginning of study route
2	Lock	XU 98639178	0.35	Length: 50 m Width: 9.7 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 7.5 m Cycle: Unknown Remarks: None EIC L7 M12
3	Bridge	XU 98309165	0.73	Crossing: Bydgoski Canal Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 22 m Vt: 4.2 m Remarks: None EIC H1 M12

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Bydgoski Canal Study Route # IVD

May 1957

No.	Item	UTM	km	Remarks
4	Bridge	XU 97709148	1.33	Crossing: Bydgoski Canal Description: Railway; 2 tracks Length: 60 m Type: Steel deck No. & length of spans: 1 @ 60 m Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hs: 1 @ 27 m Vt: 4.86 m Remarks: None EIC R6 M12
5	Lock	XU 975914	1.57	Length: 58 m Width: 9.7 m Depth over sill: Unknown Material: Unknown No. & type of gates: 2 miter Lifts: 1 @ 7.6 m Cycle: Unknown Remarks: None EIC L10 M12
6	Lock	XU 93629242	5.49	Length: 72 m Width: 9.4 m Depth over sill: Unknown Material: Unknown No. & type of gates: 2 miter Lifts: 1 @ 3.8 m Cycle: Unknown Remarks: None EIC L14 M12
7	Lock	XU 92689266	6.49	Length: 72 m Width: 9.4 m Depth over sill: Unknown Material: Unknown No. & type of gates: 2 miter Lifts: 1 @ 3.9 m Cycle: Unknown Remarks: None EIC L13 M12
8	Lock	XU 90459246	22.54	Length: 57.4 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 2 m Cycle: Unknown Remarks: None EIC L23 M12 IVD.2

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No.	Item	UTM	km	Remarks
9	Lock	XU 75048998	24.24	Length: 58 m Width: 9.7 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: 1 @ 2 m Cycle: Unknown Remarks: None EIC L24 M12
10	Noteo river	XU 74888999	24.44	Remarks: Confluence of Canal and river. End of study route.

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Brda River Study Route IVE May 1957

Lake Witoczno (XV 658728) to Vistula River (CD 083901)

The Brda river rises out of Lake Witoczno and flows in a southerly direction to its confluence with the Vistula river at CD 083901. It forms the easternmost link of the waterway connecting the Oder and Vistula rivers.

The Brda river is navigable for a distance of 14.14 km, from Bydgoszcz to the Vistula river. This navigable section has revetted banks with a sand and gravel bottom. It is approximately 30 meters wide and can accommodate vessels with a draft of 2.8 m. It is closed by ice between December and March for a total of approximately 90 days each year.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	Lake	XV 658728	0.0	Remarks: Lake Witoczno; source of river
2	Bridge	XU 99709144	129.85	Crossing: Brda river Description: Railway; 2 tracks Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 7.2 m, 1 @ 9.2 m, 1 @ 9.9 m Vt: 4 m Remarks: None EIC R1 M12
3	Bridge	XU 99759138	129.9	Crossing: Brda river Description: Railway; 3 tracks Length: Unknown Type: Unknown No. & length of spans: 2 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 8.4 m, 1 @ 11.2 m, 1 @ 10.9 m Vt: 4 m Remarks: None EIC R2 M12

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Brda River Study Route # IVE May 1957

No.	Item	UTM	km	Remarks
4	Lock	YU 005906	130.95	Length: 57.4 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L5 M12
5	Bridge	YU 004906	131.15	Crossing: Brda river Description: Highway; width 15 m Length: 60 m Type: Concrete deck No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 13.8 m, 1 @ 15.5 m 1 @ 12.2 m Vt: 2.4 m Remarks: None EIC H10 M12
6	Port	YU 005905	131.28	Town: Bydgoszcz Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: None
7	Bridge	BD 99419038	132.18	Crossing: Brda river Description: Highway; width 25 m Length: 50 m Type: Concrete deck No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 17 m, 1 @ 12.5 m Vt: 2.92 m Remarks: None EIC H12 M12

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No.	Item	UTM	km	Remarks
8	Bridge	BD 99749018	132.58	Crossing: Brda river Description: Highway; width 12 m Length: 50-60 m Type: Steel thru truss No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 27.6 m Vt: 2.92 m Remarks: None EIC H11 M12
9	Port	CD 052904	138.28	Town: Kapusciska Dolna Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: 1-20 ton crane Wharfage: 400 m; basin area 39,000 sqm Storage: Unknown Remarks: Shipyard; repairs tugs, steamers and barges
10	Bridge	CD 057898	138.66	Crossing: Brda river Description: Railway; 2 tracks Length: 100-120 m Type: Steel girder No. & length of spans: 3 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 10-15 m Remarks: None EIC R17 M12
11	Port	CD 06068960	139.28	Town: Kapusciska Dolna Water depth: MW: Unknown; LW: Unknown Loading & unloading equipment: Unknown Wharfage: 3,000 m; water area 363,000 sqm Storage: Unknown Remarks: Wood harbor

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Brda river Study Route # IVE

May 1957

No.	Item	UTM	km	Remarks
12	Bridge	CD 062896	139.38	Crossing: Brda river Description: Railway; 2 tracks Length: 120 m Type: Steel girder No. & length of spans: 2 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 10-15 m Remarks: None EIC R15 M12
13	Harbor	CD 065893	139.58	Remarks: Barge moorings for winter harbor
14	Shipyard	CD 069891	140.18	Remarks: None
15	Bridge	CD 06838900	140.19	Crossing: Brda river Description: Highway; width 6.6 m Length: 65 m Type: Steel thru lattice girder No. & length of spans: 2 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H17 M12
16	Vistula river	CD 083901	141.69	Remarks: End of study route

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Oder River Study Route # V

Raciborz (CA 020537) to Szczecin (VV 723214)

The Oder river originates in the southern slopes of the Oderska mountains in north-central Czechoslovakia and flows generally north to its mouth at the Damanschor Strom, north of Szczecin. Its total length is 912 km, of which 730 km is in Poland. This 730 km stretch in Poland is completely navigable. Although completely navigable, the limits of navigability differ greatly throughout its length. From the Czechoslovakian border to Kozle it has an average width of 30-60 m with a safe draft of 1.4 m. The river has a stone and gravel bottom with sand banks. Vessels with a 170 ton capacity can navigate this section.

Between Kozle and Redzin (XS 3771) the width is 100-200 m with a safe draft of 1.5 m. There is a mud, sand and gravel bottom with gravel and loam banks. This section will accommodate vessels with 650 ton capacity.

From Redzin to Kostrin the width varies greatly from 30 meters to 250 meters with a safe draft of 1.4 m. The bottom is sand and gravel and the banks are loam and gravel. This section will accommodate vessels with a 500 ton capacity. The safe draft on this stretch is maintained by two storage basins located at Turawa and Odmuchow in Upper Silesia. These reservoirs are the sole reason that shipping may continue on the Oder at low water periods.

From Kostrin to Horni Zeton (VU 4258) the width varies from 100-400 m with a safe draft of 1.9 m. This section has sand banks and can accommodate vessels with a capacity of 750 tons.

Between Horni Zeton and Szczecin the width is approximately 200 m with a safe draft of 2 m. It has a mud and gravel bottom with loam and sand banks. This stretch will accommodate vessels with a 1000 ton capacity.

The Oder river is generally navigable throughout the year. Ice usually forms during January and February; however, with the use of both German and Polish ice breakers the river is kept open to navigation. In addition, ice jams are blown up with the use of explosives at various points along the waterway.

The river velocity ranges from 1.5 m to 2.5 m per second. This may vary more during the spring thaws and during periods of low water.

Dredging is a constant problem along the entire river. Currently there are three small dredgers in constant operation, between Kostrin and Frankfurt, and one dredger working between Breslau and Kozle. This is not sufficient to maintain the river as well as in prewar times. As a result, navigation is hindered to a greater extent than previously.

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Oder River Study Route # V-

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This waterway provides the natural artery for the shipment of goods between the industrial area of Silesia and the Baltic Sea. With its recovery Poland may become a leading participant in international inland water transport.

There is a critical point near Goritz at VU 736131 where because of the low water level there is a continual navigational danger.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	Bridge	CA 079330	0.0	Crossing: Oder river Description: Railway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Unknown Hz: Unknown Vt: Unknown Remarks: Border of Czechoslovakia and Poland; beginning of study route EIC R11 T12
2	Bridge	CA 082334	0.5	Crossing: Oder river Description: Highway; width 7.8 m Length: 120 m Type: Timber trestle No. & length of spans: 11 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Unknown Hz: Unknown Vt: Unknown Remarks: None EIC H9 T12
3	Bridge	CA 014531	25.25	Crossing: Oder river Description: Highway; width 9 m Length: 108 m Type: Re-concrete arch No. & length of spans: 3 @ Unknown Capacity: Unknown Water gap: 108 m Navigable underbridge clearance: Unknown Hz: Unknown Vt: Unknown Remarks: None EIC H10 T12

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Oder river	Study Route # V	No.	Item	UTM	km	Remarks
		4	Loading Point	CA 020537	26.05	Town: Raciborz (south) Remarks: No shore loading; only an approach road
		5	Bridge	CA 020539	26.15	Crossing: Oder river Description: Highway; width 7 m Length: 50 m Type: Steel truss arch No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 40 m Vt: 4.65 m Remarks: For pedestrians only EIC H3 T12
		6	Bridge	CA 020544	26.75	Crossing: Oder river Description: Railway; 2 tracks Length: 80 m Type: Concrete slab No. & length of spans: 5 @ 15 m Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 6 m Remarks: None EIC R1 T12
		7	Bridge	CA 015546	27.25	Crossing: Oder river Description: Highway; width 6-7 m Length: 96 m Type: Concrete arch No. & length of spans: 3 @ Unknown Capacity: 200 tons Water gap: 68.5 m Navigable underbridge clearance: Hz: Unknown Vt: 7-8 m Remarks: None EIC H1 T12

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Oder River	Study Route # V	No.	Item	UTM	km	Remarks
		8	Port	CA 009548	28.05	Town: Raciborz Water depth: MW: 1.2 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown; basin area 1,100 sqm Storage: Unknown Remarks: None
		9	Port	CA 009554	30.5	Town: Ratibor (Raciborz) Water depth: MW: 1.2 m; LW: Unknown Loading & unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: None
		10	Bridge	CA 044628	40.2	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R7 T12
		11	Bridge	CA 020751	60.5	Crossing: Oder river Description: Highway Length: Unknown Type: Timber trestle No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H37 S12

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Study Route # V					
Oder River	No.	Item	UTM	km	Remarks
	12	Bridge	BA 97168007	73.1	Crossing: Oder river Description: Highway; width 10 m Length: 80 m Type: RC-concrete beam No. & length of spans: 3 @ Unknown Capacity: Unknown Water gap: 72 m Navigable underbridge clearance: Hz: 1 @ 26 m Vt: 8 m Remarks: None EIC H10 S12
	13	Port	BA 970802	73.2	Town: Czesl Water depth: MW: 1.8 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 70 m Storage: 1 stockyard 1,700 sqm Remarks: None
	14	Lock	BA 96888035	73.3	Length: 41.9 m Width: 5.34 m Depth over sill: Unknown Material: Stone No. & type of gates: Miter Lifts: 1 @ 1.8 m Cycle: 30 minutes Remarks: Mechanical; Parallel to item # 15 EIC L8 S12
	15	Lock	BA 96888035	73.3	Length: 187 m Width: 9.6 m Depth over sill: Unknown Material: Stone No. & type of gates: Miter Lifts: 1.8 m Cycle: 30 minutes Remarks: Mechanical EIC L8 S12
	16	Port	BA 97168116	74.3	Town: Czesl. Water depth: MW: 1.5 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 140.5 m Storage: Unknown Remarks: None

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Study Route # V					
Oder River	No.	Item	UTM	km	Remarks
	17	Bridge	BA 97138157	74.8	Crossing: Oder river Description: Railway; 2 tracks Length: Unknown Type: Steel truss No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 38 m Vt: 5.25 m Remarks: None EIC R9 S12
	18	Port	BA 96668270	76.0	Town: Czesl Water depth: MW: 3.0 m; LW: Unknown Loading and unloading equipment: 14-ton portal cranes; 1-10 ton portal crane Wharfage: 5,400 m; 3 basins with a surface area of 211,500 sqm Storage: 4 stockyards 23,500 sqm 6 silos 26,500 cu m. Remarks: Unknown None
	19	Lock	BA 94748616	83.5	Length: 55 m Width: 9.6 m Depth over sill: Unknown Material: Brick No. & type of gates: Miter Lifts: 1 @ 2.0 m Cycle: 30 minutes Remarks: None EIC L4 S12
	20	Lock	BA 94738614	83.7	Length: 187 m Width: 9.6 m Depth over sill: Unknown Material: Brick No. & type of gates: Miter Lifts: 1 @ 2.0 m Cycle: 30 minutes Remarks: None EIC L4 S12
	21	Lock	BA 91739045	92.3	Length: 54.2 m Width: 9.6 m Depth over sill: Unknown Material: Bricks No. & type of gates: Miter Lifts: 1 @ 2.0 m Cycle: 30 minutes Remarks: None EIC L10 S12

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Oder River	Study Route #	V	No.	Item	UTM	km	Remarks
22	Lock	BA 91839035	92.5		Length: 187 m Width: 9.6 m Depth over sill: Unknown Material: Brick No.& type of gates: Miter Lifts: 1 @ 2 m Cycle: 30 minutes Remarks: None EIC L10 S12		
23	Port	BA 90159067	92.7		Town: Ambach Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 120 m Storage: 1 stockyard 6,000 sqm Remarks: Private loading place for brick plant		
24	Lock	YR 12239530	101.3		Length: 187 m Width: 9.6 m Depth over sill: Unknown Material: Brick No.& type of gates: Miter Lifts: Unknown Cycle: Unknown Remarks: Parallel to item # 25 EIC L3 S12		
25	Lock	YR 121951	101.85		Length: 55 m Width: 9.6 m Depth over sill: Unknown Material: Bricks No.& type of gates: Miter Lifts: 1 @ 2.6 m Cycle: Unknown Remarks: Manual EIC L3 S12		
26	Bridge	YR 108961	102.6		Crossing: Oder river Description: Highway Length: Unknown Type: Wood No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H18 S12		

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Oder River	Study Route #	V	No.	Item	UTM	km	Remarks
27	City	YR 107963	102.9		Town: Ottmuth Remarks: None		
28	Port	YR 106963	103.6		Town: Krappitz Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 40 m Storage: 1 stockyard 650 sqm Remarks: None		
29	Bridge	YR 10109725	104.1		Crossing: Oder river Description: Railway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 48 m Vt: Unknown Remarks: Destroyed EIC R11 S12		
30	Loading Point	YR 10049720	104.1		Remarks: Wharfage of 40 m		
31	Port	YR 099972	104.3		Town: Karlhorst Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: 1-1 ton electric fixed crane Wharfage: 60 m Storage: Unknown Remarks: None		
32	Loading Point	YR 092972	104.9		Remarks: Wharfage: 150 m		
33	Lock	YR 09029965	107.5		Length: 54.2 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: Parallel to item # 34 EIC L11 S12		

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Study Route # V					
Oder River	No.	Item	UTM	km	Remarks
	34	Lock	YR 09069965	107.7	Length: 187 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L11 S12
	35	Shipyard	YS 096004	109.0	Remarks: 1 slipway
	36	Port	YS 096003	109.2	Town: Odergrund Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 200 m Storage: 1 stockyard 3,000 sqm Remarks: None
	37	Port	YS 09450123	109.8	Town: None Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 60 m Storage: 2 stockyards 5,500 sqm Remarks: None
	38	Port	YS 097020	110.6	Town: Steinfurt Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 220 m Storage: 1 stockyard Remarks: None
	39	Bridge	YS 093050	113.9	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: H: Unknown Vt: Unknown Remarks: None EIC H47 S12

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Oder River	No.	Item	UTM	km	Remarks
	40	Lock	YS 104057	115.3	Length: 55 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Miter Lifts: Unknown Cycle: 30 minutes Remarks: Manual; parallel to item # 41 EIC L12 S12
	41	Lock	YS 10370570	115.3 to 115.5	Length: 187 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Miter Lifts: Unknown Cycle: 30 minutes Remarks: Manual EIC L12 S12
	42	Port	YS 105057	115.5	Town: Oderwinkel Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: None
	43	Lock	YS 09281225	122.5	Length: 55 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: Parallel to item # 44 EIC L15 S12
	44	Lock	YS 09281220	122.5 to 122.7	Length: 187 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L15 S12

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Oder River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
45	Port	YS 07251570	127.6	Town: Bolko-Bolksinsel Water depth: MW: Unknown; LW: Unknown Loading & unloading equipment: 1 electric revolving belt crane Wharfage: Unknown Storage: 2 storage sheds 7,200 sqm 1 stockyard 5,000 sqm Remarks: None
46	Lock	YS 068160	128.3	Length: 54.2 m Width: 9 m Depth over sill: Unknown Material: Brick No. & type of gates: Miter Lifts: 1 @ 5 m Cycle: 30 minutes Remarks: Manual; parallel to item # 47 EIC L13 S12
47	Lock	YS 06801599	128.3 to 128.5	Length: 187.3 m Width: 9.6 m Depth over sill: Unknown Material: Brick No. & type of gates: Miter Lifts: 1 @ 5 m Cycle: 30 minutes Remarks: Manual EIC L13 S12
48	Bridge	YS 066161	128.5	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H1 S12

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Oder River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
49	Bridge	YS 066165	128.72	Crossing: Oder river Description: Railway; 2 tracks Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 2 @ 12.5 m Vt: 3.37 m Remarks: None EIC R8 S12
50	Bridge	YS 066166	128.79	Crossing: Oder river Description: Highway Length: 120-150 m Type: Re-concrete girder No. & length of spans: Unknown Capacity: 150 tons Water gap: 80-90 m Navigable underbridge clearance: Hz: 1 @ 37.5 m Vt: 3.37 m Remarks: None EIC H6 S12
51	Bridge	YS 06601695	129.16	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: Destroyed EIC H6 S12
52	Bridge	YS 061165	129.2	Crossing: Oder river Description: Railway; 2 tracks Length: 120 m Type: Steel No. & length of spans: 3 @ Unknown Capacity: 250 tons Water gap: 60 m Navigable underbridge clearance: Hz: Unknown Vt: 8 m Remarks: None EIC R1 S12

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Oder River Study Route # V May 1957

No.	Item	UTM	km	Remarks
53	Bridge	YS 06501713	129.46	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H9 S12
54	Lock	YS 06381720	129.58	Length: 57.5 m Width: 8.6 m Material: Unknown Depth over sill: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L16 S12
55	Bridge	YS 06331733	129.71	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 2 @ 11.2 m Vt: 3.08 m Remarks: None EIC
56	Bridge	YS 062173	130.0	Crossing: Oder river Description: Highway Length: Unknown No. & length of spans: Unknown Type: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H4 S12

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Oder river Study Route # V May 1957

No.	Item	UTM	km	Remarks
57	Bridge	YS 061177	130.4	Crossing: Oder river Description: Highway; width 8 m Length: 153 m Type: Re-concrete arch No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H13 S12
58	Loading Point	YS 05801815	131.0	Remarks: 1 stockyard 1000 sqm
59	Port	YS 053196	132.6	Town: Oppeln Water depth: MW: 2.4 m; LW: Unknown Loading and unloading equipment: 2-5 ton portal cranes; 2 coal tip-pers; 1-1.5 ton crane; 1-2 ton steam crane; 1 coal conveyor Wharfage: 1200 m; harbor area 56,000 sqm Storage: 6 sheds 6,600 sqm; 2 stockyards 5,000 sqm; 1 silo 4,500 tons Remarks: 4 slipways
60	Lock	YS 039220	135.4	Length: 55 m Width: 9.6 m Depth over sill: Unknown Material: Stone No. & type of gates: Miter Lifts: 1 @ 1.8 m Cycle: 30 minutes Remarks: Parallel to item # 61 EIC L14 S12
61	Lock	YS 039220	135.4 to 135.6	Length: 187 m Width: 9.6 m Depth over sill: Unknown Material: Stone No. & type of gates: Miter Lifts: 1 @ 1.8 m Cycle: 30 minutes Remarks: None EIC L14 S12

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Oder river	Study Route #	V		May 1957
No.	Item	UTM	km	Remarks
62	Bridge	YS 01432590	140.9	Crossing: Oder river Description: Highway; width 12 m Length: 100 m Type: Concrete No. & length of spans: 6 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hs: Unknown Vt: 6.7 m Remarks: None EIC H36 S12
63	Lock	YS 001266	141.9	Length: 55 m Width: 9.6 m Depth over sill: Unknown Material: Brick No. & type of gates: Miter Lifts: 1 @ 4 m Cycle: 30 minutes Remarks: Manual; parallel to item # 64 EIC L6 R12
64	Lock	YS 001266	141.9 to 142.1	Length: 187 m Width: 9.6 m Depth over sill: Unknown Material: Brick No. & type of gates: Miter Lifts: 1 @ 4 m Cycle: 30' minutes Remarks: Manual EIC L7 R12
65	Lock	XS 966271	146.2	Length: 55 m Width: 9.6 m Depth over sill: Unknown Material: Brick No. & type of gates: Miter Lifts: 1 @ 2 m Cycle: 30 minutes Remarks: Manual; parallel to item # 66 EIC L7 R12

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Oder river	Study Route #	V		May 1957
No.	Item	UTM	km	Remarks
66	Lock	XS 966271	146.2 to 146.4	Length: 187 m Width: 9.6 m Depth over sill: Unknown Material: Brick No. & type of gates: Miter Lifts: 1 @ 2 m Cycle: 30 minutes EIC L7 R12 Remarks: Manual
67	Lock	XS 918302	152.6	Length: 55 m Width: 9.6 m Depth over sill: Unknown Material: Brick No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: Manual; parallel to item # 68 EIC L7 R12
68	Lock	XS 918302	152.6 to 152.8	Length: 187 m Width: 9.6 m Depth over sill: Unknown Material: Brick No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: Manual EIC L6 R12
69	Port	XS 90823093	154.0	Town: Poppeln Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: 1 stockyard 5,000 sqm Remarks: None
70	Bridge	XS 907308	154.2	Crossing: Oder river Description: Highway; width 6m Length: 150 m Type: Reinforced concrete arch No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hs: Unknown Vt: 12 m Remarks: None EIC H1 R12

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Oder river	Study Route # V			
No.	Item	UTM	km	Remarks
71	Lock	XS 875330	158.4	Length: 54.2 m Width: 9.6 m Depth over sill: Unknown Material: Brick No. & type of gates: Miter Lifts: 1 @ 2 m Cycle: 30 minutes Remarks: Manual; parallel to item # 72 EIC L5 R12
72	Lock	XS 875330	158.4 to 158.6	Length: 187.2 m Width: 9.6 m Depth over sill: Unknown Material: Brick No. & type of gates: Miter Lifts: 1 @ 2 m Cycle: 30 minutes Remarks: Manual EIC L5 R12
73	Port	XS 847336	162.1	Town: Koppen Water depth: MW: 1.5 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 80 m Storage: Unknown Remarks: Transhipment area for wood
74	City	XS 842336	162.5	Town: Koppen Remarks: None
75	Lock	XS 828340	163.9 to 164.1	Length: 187.8 m Width: 9.6 m Depth over sill: Unknown Material: Brick No. & type of gates: Miter Lifts: 1 @ 2 m Cycle: 30 minutes Remarks: Manual EIC L9 R12
76	Bridge	XS 828340	163.9	Crossing: Köppen-Schönauer Canal Description: Highway Length: 27-30 m Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Approximately 30 m Navigable underbridge clearance: Hz: 1 @ 12.2 m Vt: 5.91 m Remarks: None EIC v.17

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Oder river	Study Route # V			
No.	Item	UTM	km	Remarks
77	City	XS 826340	164.1	Town: Schanowitz Remarks: None
78	Bridge	XS 79923505	167.0	Crossing: Köppen-Schönauer Canal Description: Highway Length: 30 m Type: Steel girder No. & length of spans: 1 @ 30 m Capacity: Unknown Water gap: 30 m Navigable underbridge clearance: Hz: Unknown Vt: 5 m Remarks: None EIC H7 R12
79	City	XS 76533650	173.9	Town: Paulau Remarks: None
80	Shipyard	XS 753372	175.3	Remarks: Shipbuilding plant for steamers; 1 slipway
81	Lock	XS 751376	175.7	Length: 39.9 m Width: 5.28 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: Old lock, unused; parallel to items # 82 & 83 EIC L10 R12
82	Lock	XS 751376	175.7	Length: 55 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: Parallel to items # 81 and 83 EIC L10 R12
83	Lock	XS 751376	175.7	Length: 187.1 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: Parallel to items # 81 and 82 EIC L10 R12

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Oder river	Study Route # V	May 1957		
No.	Item	UTM	km	Remarks
84	Port	XS 74853785	176.0	Town: Brieg Water depth: MW: 2.0 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 30 m Storage: 1 stockyard 80 sqm Remarks: None
85	Bridge	XS 74543813	176.5	Crossing: Oder river Description: Highway Length: Unknown Type: Wood No.& length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: H _z : Unknown V _t : Unknown Remarks: None EIC H4 R12
86	Bridge	XS 74063833	177.0	Crossing: Oder Canal Description: Highway Length: 30-50 m Type: Steel girder No.& length of spans: 1 @ 30 m (aprx) Capacity: Unknown Water gap: 30 m Navigable underbridge clearance: H _z : Unknown V _t : 5 m Remarks: None EIC H3 R12
87	Port	XS 73853843	177.2	Town: Brieg Water depth: MW: 2.0 m; LW: Unknown Loading and unloading equipment: 1-1 ton electric crane Wharfage: 50 m; 1200 sqm harbor area Storage: 1 stockyard 430 sqm 2 sheds 7,950 cu m. Remarks: None

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Oder River	Study Route # V	May 1957		
No.	Item	UTM	km	Remarks
88	City	XS 727404	179.9	Town: Garbendorf Remarks: None
89	Lock	XS 69534330	184.8 to 185.0	Length: 187 m Width: 9.6 m Depth over sill: Unknown Material: Brick No.& type of gates: Miter Lifts: 1 @ 0.95 m Cycle: 30 minutes Remarks: Manual EIC L2 R12
90	City	XS 645451	190.8	Town: Odersteine Remarks: None
91	Lock	XS 64264570	191.2	Length: 55 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No.& type of gates: Unknown Lifts: 1 @ 3.15 m Cycle: Unknown Remarks: None EIC L1 R12
92	Port	XS 633457	192.2	Town: Ohlau Water depth: MW: 2.0 m; LW: Unknown Loading and unloading equipment: 2-2 ton chain driven cranes Wharfage: 110 m Storage: 2 sheds 10,400 cu m. Remarks: 1 slipway
93	Lock	XS 62844590	192.6	Length: 188.1 m Width: 9.6 m Depth over sill: Unknown Material: Brick No.& type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: Manual; EIC L14 R11

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Oder River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
94	Bridge	XS 63684598	192.8	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H24 R11
95	Bridge	XS 62154660	194.3	Crossing: Oder river Description: Highway Length: 100 m Type: Steel girder No. & length of spans: Unknown Capacity: Unknown Water gap: 50-60 m Navigable underbridge clearance: Hz: Unknown Vt: 4 m Remarks: None EIC H6 R11
96	City	XS 586564	205.5	Town: Kattwitz Remarks: None
97	Lock	XS 58355597	205.6	Length: 187.8 m Width: 9.6 m Depth over sill: Unknown Material: Brick No. & type of gates: Miter Lifts: 1 @ 2.4 m Cycle: 30 minutes Remarks: Manual EIC L6 R11
98	Bridge	XS 582561	205.8	Crossing: Oder river Description: Highway Length: 30 m Type: Steel No. & length of spans: 1 @ 30 m Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 5 m Remarks: None EIC H27 R11 V. 31

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Oder River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
99	Bridge	XS 56005735	208.6	Crossing: Oder river Description: Railway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: Destroyed EIC R2 R11
100	Lock	XS 54865820	210.3	Length: 187.8 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: Manual; parallel to item #101 EIC L5 R11
101	Lock	XS 54865820	210.3	Length: 225 m Width: 12 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: 2 chambers EIC L5 R11
102	Bridge	XS 53405855	211.9	Crossing: Oder river Description: Highway; width 10 m Length: 60 m Type: Concrete closed spandrel arch No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 10 m Remarks: None EIC H45 R11

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Oder River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
103	Port	XS 532586	212.1	Town: Margareth Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: Fresh water point
104	Port	XS 53025878	212.3	Town: Margareth Water depth: MW: 2.5 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 90 m Storage: Unknown Remarks: None
105	Dam	XS 52635921	212.7	Remarks: No information EIC DL R11
106	Bridge	XS 52355996	213.7	Crossing: Oder river Description: Highway; width 15 m Length: 150 m Type: Masonry arch No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 10 m Remarks: None EIC HL4 R11
107	Port	XS 523601	213.8	Town: Steine Water depth: MW: 2.5 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 100 m Storage: Unknown Remarks: None
108	Port	XS 522604	214.1	Town: Steine Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: Fresh water point

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Oder River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
109	Port	XS 513612	219.1	Town: Lanisch Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: Fresh water point
110	Port	XS 505612	219.6	Town: Treschen Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: Fresh water point
111	Lock	XS 489628	222.4	Length: 74.6 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: Manual EIC L11 R11
112	Lock	XS 48956362	222.7	Length: 187.7 m Width: 9.6 m Depth over sill: Unknown Material: Brick No. & type of gates: Unknown Lifts: 1 @ 3.5 m Cycle: 30 minutes Remarks: Manual EIC L10 R11
113	Bridge	XS 48856380	222.9	Crossing: Oder Flutkanal Description: Highway; width 5.4 m Length: 92 m Type: Steel lattice girder No. & length of spans: 3 @ Unknown Capacity: Unknown Water gap: 49.5 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H1 R11

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Oder River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
114	Port	XS 484632	223.1	Town: Wilhelmshafen Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: Fresh water point
115	Port	XS 482646	224.0	Town: Breslau Water depth: MW: 2.2 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 150 m; harbor area 1600 sqm Storage: 2 sheds 5380 cu m Remarks: None
116	Bridge	XS 47806495	224.5	Crossing: Oder river Description: Highway Length: Unknown Type: Concrete No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 32 m Vt: 4.7 m Remarks: None EIC H17 R11
117	Port	XS 462629	225.4	Town: Breslau Water depth: MW: 1.7 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 360 m; harbor area 22,000 sqm Storage: Unknown Remarks: None
118	Port	XS 472657	225.6	Town: Breslau Water depth: MW: 2.3 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 90 m Storage: 2 sheds 47,000 cu.m. Remarks: None

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Oder River	Study River #	V	May 1957	
No.	Item	UTM	km	Remarks
119	Port	XS 462664	226.7	Town: Breslau Water depth: MW: 2.3 m; LW: Unknown Loading and unloading equipment: 1-1.2 ton electric crane Wharfage: 70 m; harbor area 1000 sqm Storage: 3 sheds 3902 cu m; 1 stockyard 2000 sqm Remarks: None
120	Port	XS 461665	226.8	Town: Breslau Water depth: MW: 1.8 m; LW: Unknown Loading and unloading equipment: 1-1.5 ton fixed crane 1-1.5 ton movable crane Wharfage: 400 m; harbor area 17000 sqm Storage: 1 stockyard 15,000 sqm 1 shed 1440 cu m Remarks: Shipyard
121	Lock	XS 45706643	227.2	Length: 186.1 m Width: 9.6 m Depth over sill: Unknown Material: Brick No. & type of gates: Unknown Lifts: 1 @ 3.5 m Cycle: 30 minutes Remarks: Manual EIC L3 R11
122	Bridge	XS 455664	227.4	Crossing: Oder river Description: Highway Length: 50-70 m Type: Concrete arch truss No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H11 R11
123	Port	XS 440640	228.1	Town: Breslau Water depth: MW: 1.5 m; LW: Unknown Loading and unloading equipment: 1-1.5 ton movable crane Wharfage: 70 m Storage: 1 stockyard 1,570 sqm Remarks: Sand loading point

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Oder River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
124 Port	XS 438640	228.2	Town: Breslau Water depth: MW: 1.5 m; LW: Unknown Loading and unloading equipment: 1-7 ton movable crane; 1-ton movable crane; 2-2 ton fixed cranes Wharfage: 344 m, harbor area 4500 sqm Storage: 4 stockyards 2500 sqm Banks: Sand loading point	
125 Port	XS 43756410	228.4	Town: Breslau Water depth: MW: 1.5 m; LW: Unknown Loading and unloading equipment: 1-1.5 ton movable crane Wharfage: 100 m Storage: 1 stockyard 160 sqm Remarks: Sand loading point	
126 Bridge	XS 438642	228.4	Crossing: Oder river Description: Highway; width 18 m Length: 100 m Type: Steel suspension No. & length of spans: Unknown Capacity: Unknown Water gap: 100 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H7 R11	
127 Bridge	XS 442665	228.7	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H16 R11	

Oder River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
128 Bridge	XS 435644	228.75	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H4 R11	
129 Bridge	XS 43956670	229.0	Crossing: Oder river Description: Railway; 2 tracks Length: Unknown Type: Steel truss No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R5 R11	
130 Bridge	XS 42866465	229.45	Crossing: Oder river Description: Highway; width 9 m Length: 45.9 m Type: Steel girder No. & length of spans: 2 @ Unknown Capacity: Unknown Water gap: 36 m Navigable underbridge clearance: Hz: 28.2 m Vt: 2.16 m Remarks: None EIC H3 R11	
131 Bridge	XS 428647	229.5	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H2 R11	

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Oder River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
132	Lock	XS 428647	229.5	Length: 39.1 m Width: 5.36 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L15 R11
133	Bridge	XS 42456475	230.0	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H18 R11
134	Lock	XS 42306475	230.1	Length: 41 m Width: 5.34 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L12 R11
135	Bridge	XS 42236471	230.2	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H19 R11

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Oder River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
136	Port	XS 421647	230.4	Town: Breslau Water depth: MW: 1.5 m; LW: Unknown Loading and unloading equipment: 1-1 ton fixed crane, 1 loading chute Wharfage: Unknown Storage: 1 warehouse 3000 cu m, 1 warehouse 5000 cu m Remarks: None
137	Bridge	XS 42556675	230.5	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H5 R11
138	Port	XS 419647	230.6	Town: Breslau Water depth: MW: 2.0 m; LW: Unknown Loading and unloading equipment: 1-1 ton movable crane, 1-1 ton fixed crane Wharfage: 80 m Storage: 1 warehouse 25560 cu m Remarks: None
139	Bridge	XS 41756470	230.7	Crossing: Oder river Description: Highway; width 13 m Length: 84 m Type: Steel bowstring No. & length of spans: 2 @ Unknown Capacity: Unknown Water gap: 61 m Navigable underbridge clearance: Hz: 1 @ 45 m Vt: 3.32 m Remarks: None EIC H21 R11

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Oder River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
140	Port	XS 417646	230.7	Town: Breslau Water depth: MW: 2.0 m; LW: Unknown Loading and unloading equipment: 2-1.5 ton movable cranes, 1-3 ton movable crane Wharfage: 200 m Storage: 2 stockyards 900 sqm, 8 warehouses 15,000 cu m Remarks: None
141	Bridge	XS 41966670	231.1	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H9 R11
142	Lock	XS 419667	231.1	Length: 196.24 m Width: 9.6 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L2 R11
143	Port	XS 413653	231.7	Town: Breslau Water depth: MW: 2.5 m; LW: Unknown Loading and unloading equipment: 3-2.5 ton movable cranes, 1-4 ton movable crane, 1-2 ton movable crane, 1-2 ton fixed crane Storage: 8 sheds 14,000 sqm, 12 warehouses 54,090 cu m Remarks: None
144	Shipyard	XS 415656	231.9	Remarks: Can berth 11 ships

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Oder River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
145	Bridge	XS 31456589	232.2	Crossing: Oder river Description: Railway; 2 tracks Length: 80 m Type: Lattice girder No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 28.2 m Vt: 4.15 m Remarks: None EIC R4 R11
146	Port	XS 411662	232.7	Town: Breslau Water depth: MW: 1.8 m; LW: Unknown Loading and unloading equipment: 1-3 ton fixed crane Wharfage: 120 m; harbor area 6000 sqm Storage: Unknown Remarks: None
147	Port	XS 409664	232.9	Town: Breslau Water depth: MW: 3.0 m; LW: Unknown Wharfage: 1753 m; harbor area 34,700 sqm Loading and unloading equipment: 1-1.5 ton crane, 2-5 ton cranes, 5-2 ton cranes, 2-3 ton cranes, 1-2.2 ton crane, 1-1.2 ton crane, 1-30 ton crane, 1-2 ton loading bridge; 1 electric elevator Storage: 5 stockyards 11,160 sqm, 4 warehouses 77,200 cu m, 2 grain warehouses 33,890 cu m 1 grain silo 2,000 cu m Remarks: None
148	Port	XS 403665	233.5	Town: Breslau Water depth: MW: 2 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 70 m; harbor area 600 sqm Storage: 3 stockyards 2150 sqm, 2 sheds 3500 cu m Remarks: None

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Oder River	Study Route # V	No.	Item	UTM	km	Remarks
149 Bridge	XS 402665	233.8	Crossing: Oder river Description: Railway; 2 tracks Length: 300 m Type: Steel truss No. & length of spans: Unknown Capacity: 250 tons Water gap: 70-80 m Navigable underbridge clearance: Hs: 1 @ 59.3 m Vt: 5.7 m Remarks: None EIC R3 R11			
150 Port	XS 400665	233.9	Town: Breslau Water depth: MW: 3.0 m; LW: Unknown Loading and unloading equipment: 2 fixed tippers Wharfage: 590 m Storage: Unknown Remarks: 6 slipways			
151 Anchorage	XS 396667	234.5	Basin			Remarks: Basin for 50 ships
152 Port	XS 394667	234.6	Town: Breslau Water depth: MW: 3.0 m; LW: Unknown Loading and unloading equipment: 1-1 ton crane; 3-4 ton cranes; 2 fixed tippers Wharfage: 450 m; harbor area 11,500 sqm Storage: 5 stockyards 23,700 sqm 5 warehouses 40,500 cu m Remarks: Winter and commercial harbor			
153 Port	XS 393672	234.9	Town: Breslau Water depth: MW: 4.3 m; LW: Unknown Loading and unloading equipment: Unknown Storage: Unknown Wharfage: 900 m; harbor area 11,500 sqm Remarks: None			
154 Anchorage	XS 379692	237.9	Basin			Remarks: Area for 75 vessels

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Oder River	Study Route # V	No.	Item	UTM	km	Remarks
155 Lock	XS 37346942	238.5	Length: 203.1 m Width: 12 m Depth over sill: Unknown Material: Unknown No. & of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L7 R11			
156 Bridge	XS 37346942	238.5	Crossing: Oder river Description: Highway; width 6 m Length: 60 m Type: Steel truss No. & length of spans: 1 @ 60 m Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hs: Unknown Vt: 5 m Remarks: None EIC H26 R11			
157 Lock	XS 371694	238.7	Length: 226 m Width: 12 m Depth over sill: Unknown Material: Steel & concrete No. & type of gates: Unknown Lifts: 4-5 m Cycle: 45 minutes Remarks: 2 chambers EIC L9 R11			
158 Port	XS 367696	238.8	Town: Masselnitz Water depth: MW: 3.5 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 400 m Storage: Unknown Remarks: Winter anchorage for 60 ships			
159 Port	XS 289793	253.0	Town: Auras Water depth: MW: 1.9 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 80 m Storage: Unknown Remarks: Fresh water point			

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Oder River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
160 Port	XS 286796	257.1	Town: Auras Water depth: MW: 2.0 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 465 m Storage: Unknown Remarks: None	
161 Lock	XS 234806	259.4	Length: 99.5 m Width: 12.25 m Depth over sill: 9 m Material: Re-concrete No. & type of gates: 2 meter Lifts: Unknown Cycle: 8 minutes Remarks: None EIC L1 Q11	
162 Bridge	XS 234806	259.4	Crossing: Oder river Description: Highway Length: 60 m Type: Re-concrete beam No. & length of spans: 4 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H2 Q11	
163 Bridge	XS 21958000	261.1	Crossing: Oder river Description: Railway; 2 tracks Length: 100 m Type: Steel No. & length of spans: Unknown Capacity: Unknown Water gap: 50 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R2 Q11	
164 Port	XS 212804	261.9	Town: Dyhermfurth Water depth: MW: 3.2 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 160 m Storage: Unknown Remarks: None	

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Oder River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
165 Bridge	XS 202800	263.1	Crossing: Oder river Description: Highway; width 8.1 m Length: 159 m Type: Unknown No. & length of spans: Unknown Capacity: 6 tons Water gap: 133.2 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H4 Q11	
166 Port	XS 161789	268.4	Town: None Water depth: MW: 1.9 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 50 m Storage: Unknown Remarks: None	
167 Port	XS 153789	269.2	Town: None Water depth: MW: 1.95 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 60 m Storage: Unknown Remarks: None	
168 Port	XS 134792	271.3	Town: None Water depth: MW: 2.3 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 160 m Storage: Unknown Remarks: None	
169 Port	XS 120785	272.9	Town: Seedorf Water depth: MW: 2.2 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 100 m Storage: Unknown Remarks: None	

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Oder River	Study Route # V	No. Item	UTM	km	Remarks
170 Port	XS 088766	277.1	Town: Regnitz Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 50 m Storage: Unknown Remarks: None	277.1	
171 Port	XS 048764	282.3	Town: Maltsch Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 60 m Storage: Unknown Remarks: None	282.3	
172 Shipyard	XS 046763	282.5	Remarks: None	282.5	
173 Port	XS 045763	282.6	Town: Maltech Water depth: MW: Unknown; LW: Unknown Wharfage: 50 m Loading and unloading equipment: Unknown Storage: Unknown Remarks: None	282.6	
174 Port	XS 044762	282.7	Town: Maltsch Water depth: MW: 3.1 m; LW: Unknown Loading and unloading equipment: 1-2 ton crane, 1-2.8 ton crane, 1-4 ton crane, 2 coal tippers, 1 stone tipper, 9 fixed chutes Storage: 6 sheds 7,515 cu m Wharfage: 875 m; harbor area 38,000 sqm Remarks: None	282.7	
175 Port	XS 044762	282.7	Town: Maltsch Water depth: MW: 2.7 m; LW: Unknown Loading and unloading equipment: 1 fixed chute, 2 makeshift chutes Wharfage: 205 m Storage: 2 sheds 4,152 cu m Remarks: Loading point	282.7	

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Oder River	Study Route # V	No. Item	UTM	km	Remarks
176 Port	XS 043762	282.8	Town: Maltsch Water depth: MW: 1.8 m; LW: Unknown Loading and unloading equipment: 1-1 ton crane Wharfage: 50 m Storage: 1 stockyard 1260 sqm; 1 shed 1608 cu m Remarks: None	282.8	
177 Port	XS 037763	283.4	Town: Maltsch Water depth: MW: 2.3 m; LW: Unknown Loading and unloading equipment: 1 fixed chute, 1 beet chute Wharfage: 90 m Storage: Unknown Remarks: None	283.4	
178 Port	XS 035764	283.6	Town: Maltsch Water depth: 1.95 m; LW: Unknown Loading and unloading equipment: 1-1 ton crane; 1-2.5 ton crane, 1-3.85 ton crane, 1 grain conveyor, 1 chute, 1 beet elevator Wharfage: 350 m Storage: 2 stockyards 1050 sqm 4 sheds 10,602 cu m Remarks: None	283.6	
179 Port	XS 032765	283.9	Town: Maltsch Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: 1 weigh bridge, 1 conveyor belt Wharfage: 100 m Storage: Unknown Remarks: Fresh water supply	283.9	
180 Port	XS 027791	286.9	Town: None Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 80 m Storage: Unknown Remarks: None	286.9	

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Oder River	Study Route # V		May 1957	
No.	Item	UTM	km	Remarks
181	Bridge	XS 01957948	287.8	Crossing: Oder river Description: Railway and Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: 120 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: Bridge destroyed EIC R5H5 Q11
182	Port	XS 0280	288.3	Town: Leibus Dorf Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 60 m Storage: Unknown Remarks: None
183	Port	XS 020811	288.6	Town: Leibus Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 40 m Storage: Unknown Remarks: None
184	City	XS 018813	288.9	Town: Lebus Remarks: None
185	Port	XS 007815	291.0	Town: Leibus Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 100 m Storage: Unknown Remarks: None
186	Port	XS 017869	296.6	Town: None Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 70 m Storage: Unknown Remarks: None V.39

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Oder River	Study Route # V		May 1957	
No.	Item	UTM	km	Remarks'
187	Port	XS 015886	300.4	Town: None Water depth: MW: 1.75 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 60 m Storage: Unknown Remarks: None
188	Port	XS 015955	308.5	Town: None Water depth: MW: 1.85 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 80 m Storage: Unknown Remarks: None
189	Port	XS 00959593	309.1	Town: Georgendorfer Water depth: MW: 1.2 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 200 m; harbor-area 2500 sqm Storage: Unknown Remarks: Sawmill
190	Bridge	XS 005965	309.4	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H1 Q11
191	Bridge	XS 007962	309.5	Crossing: Oder river Description: Railway; 2 tracks Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H1 Q11 V.40

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Oder River	Study Route #	V	km	Remarks
No.	Item	UTM	km	
192 Port	XS 004966	310.0	Town: Steinau Water depth: MW: 2.6 m; LW: Unknown Loading and unloading equipment: 1-2.5 ton crane, 1-3 ton crane, 1-5 ton crane Wharfage: 430 m; harbor area 20,400 sqm Storage: 1 stockyrd 600 sqm, 3 sheds 9100 cu m Remarks: None	
193 Port	XT 007117	327.2	Town: Koben Water depth: MW: 2.4 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 80 m; harbor area 1800 sqm Storage: Unknown Remarks: Shipbuilding plant	
194 Port	XT 016138	330.2	Town: Lubchen Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 90 m; harbor area 2500 sqm Storage: 1 shed 328 cu m Remarks: Fresh water supply	
195 Port	WT 994151	332.8	Town: Zuchen Water depth: MW: Unkn. LW: Unknown Loading and unloading equipment: Unknown Wharfage: 30 m; harbor area 3500 sqm Storage: 1 shed 920 cu m Remarks: None	
196 Port	WT 960165	336.4	Town: Barthsch-Kubin Water depth: MW: 2.4 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 50 m Remarks: None	
197 Port	WT 966182	338.6	Town: Rabenau Water depth: MW: 1.1 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown; harbor area 6000 sqm Storage: Unknown Remarks: None	

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Oder River	Study Route #	V	km	Remarks
No.	Item	UTM	km	
198 Port	WT 836270	359.9	Town: Wolfau Water depth: M/: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 60 m Storage: Unknown Remarks: None	
199 Port	WT 829260	361.7	Town: Reinberg Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: Protective harbor	
200 Port	WT 806256	364.9	Town: Klautsch Water depth: MW: 2.0 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown; harbor area 100,000sqm Storage: Unknown Remarks: None	
201 Port	WT 802254	365.8	Town: Klautsch Water depth: MW: 2.0 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown; harbor area 40,000sqm Storage: Unknown Remarks: Ship anchorage	
202 Port	WT 774245	368.9	Town: Glogau Water depth: MW: 1.6 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 100 m Storage: Unknown Remarks: Harbor for sugar factory	
203 Port	WT 768244	369.4	Town: Glogau Water depth: MW: 2.0 m; LW: Unknown Loading and unloading equipment: 1-1.5 ton crane; 1-12.5 ton crane Wharfage: 60 m; harbor area 12,100 sqm Storage: 1 stockyrd 300 sqm; 1 shed 600 cu m Remarks: Fresh water point	

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Oder River	Study Route # V			
No.	Item	UTM	km	Remarks
204	Shipyard	WT 766244	369.5	Remarks: 3 cranes; repair facilities
205	Port	WT 761246	370.2	Town: Glogau Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown; harbor area 40,000sqm Storage: Unknown Remarks: Safety harbor
206	Bridge	WT 76062465	370.3	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H8 Q10
207	Bridge	WT 756249	370.8	Crossing: Oder river Description: Highway Length: 100 m Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 5 m Remarks: None EIC H1 Q10
208	Port	WT 754250	371.2	Town: Glogau Water depth: MW: 2.0 m; LW: Unknown Loading and unloading equipment: 2-1 ton cranes, 1 grain elevator, 1 conveyor, 5 chutes Wharfage: 120 m; harbor area 30,000 sqm Storage: 1 stockyard 600 sqm, 1 shed 40,000 cu m Remarks: None

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Oder River	Study Route # V			
No.	Item	UTM	km	Remarks
209	Bridge	WT 75362505	371.2	Crossing: Oder river Description: Highway Length: Unknown Type: Concrete No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H2 Q10
210	Bridge	WT 753251	371.23	Crossing: Oder river Description: Railway; 2 tracks Length: 120 m Type: Steel No. & length of spans: Unknown Capacity: 250 tons Water gap: 60 m Navigable underbridge clearance: Hz: 59 m Vt: 4 m Remarks: None EIC R1 Q10
211	Plant	WT 749252	371.7	Remarks: Plant for barges and repair of larger river boats. Elevator for crafts up to 100 tons.
212	Port	WT 737254	372.9	Town: Glogau Water depth: MW: 2.4 m; LW: Unknown Loading and unloading equipment: 3 movable chutes; 1-ton floating shears Wharfage: 190 m Storage: 3 sheds 8200 cu m Remarks: Loading point
213	Port	WT 736254	372.9	Town: Glogau Water depth: MW: 2.4 m; LW: Unknown Loading and unloading equipment: 1-2.5 ton crane; 1-1.5 ton crane; 1-0.5 ton crane; 1-1 ton floating shears; 1-1 ton crane Storage: 2 stockyards 2250 sqm 4 sheds 25,800 cu m Wharfage: 450 m; harbor area 22,500 sqm Remarks: Safety and transhipment harbor

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Oder River	Study Route #	V	No.	Item	UTM	km	Remarks
214 Port	WT 603305	390.3	Town: Nenkersdorf Water depth: MW: 2.2 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 60 m Storage: Unknown Remarks: None				
215 Bridge	WT 571320	394.6	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: N/A Water gap: Unknown Navigable underbridge clearance: Hz: N/A Vt: N/A Remarks: Destroyed EIC H9 P10				
216 Port	WT 573319	393.7	Town: Bouthen Water depth: MW: 2.4 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 500 m; harbor area 20,000 sqm Storage: Unknown Remarks: Safety harbor				
217 Bridge	WT 50953925	406.7	Crossing: Oder river Description: Highway; width 7 m Length: 90 m Type: Re-concrete beam No. & length of spans: 3 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 4 m Remarks: None EIC H5 P10				
218 Port	WT 507393	407.0	Town: Neu Salz (Nowy Sol) Water depth: MW: 2.5 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 50 m Storage: Unknown Remarks: Wood depot V.45				

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Oder River	Study Route #	V	No.	Item	UTM	km	Remarks
219 Port	WT 502397	407.7	Town: Neu Salz (Nowy Sol) Water depth: MW: 2.5 m; LW: Unknown Loading and unloading equipment: 1-3 ton crane; 1-10 ton crane; 1-4 ton crane; 1-2 ton crane; 1-5 ton crane Wharfage: 360 m; harbor area 43,000 sqm Storage: 4 sheds 7060 sqm Remarks: Ship repair plant and water supply point				
220 Bridge	WT 53454612	415.4	Crossing: Oder river Description: Railway Length: 180 m Type: Steel, thru howe No. & length of spans: 3 @ 60 m Capacity: 250 tons Water gap: 80 m Navigable underbridge clearance: Hz: 1 @ 67 m Vt: 5 m Remarks: None EIC R3 P10				
221 Port	WT 539491	418.7	Town: None Water depth: MW: 3.0 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 100 m Storage: Unknown Remarks: None				
222 Port	WT 537521	423.5	Town: None Water depth: MW: 2.5 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 100 m Storage: Unknown Remarks: None				
223 Port	WT 534559	428.2	Town: Milzig Water depth: MW: 2.0 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 100 m Storage: Unknown Remarks: None				

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Oder River	Study Route # V	No. Item	UTM	km	Remarks
224 Port	WT 501583	434.7	Town: None Water depth: MW: 1.35 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 30 m Storage: 1 stockyard 2,800 sqm Remarks: None		
225 Port	WT 481582	436.7	Town: None Water depth: MW: 1.15 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 50 m Storage: 1 stockyard 3500 sqm Remarks: Fresh water supply		
226 Port	WT 472582	437.6	Town: Sattel Water depth: MW: 1.9m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 50 m Storage: 1 stockyard 2,000 sqm Remarks: None		
227 Port	WT 455603	441.4	Town: None Water depth: MW: 0.7 m; LW: Unknown Loading and unloading equipment: None Wharfage: 20 m Storage: 1 stockyard 5600 sqm Remarks: Fresh water supply		
228 Port	WT 449605	442.0	Town: None Water depth: MW: 1.1 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 40 m Storage: 1 stockyard 4000 sqm Remarks: None		
229 Port	WT 443615	443.1	Town: None Water depth: MW: 0.7 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 50 m Storage: 1 stockyard 2800 sqm Remarks: None V.47		

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Oder River	Study Route # V	No. Item	UTM	km	Remarks
230 Port	WT 435652	447.3	Town: Tschicherzig Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 80 m Storage: 1 stockyard 5500 sqm Remarks: Refuge area		
231 Port	WT 436652	448.0	Town: Tschicherzig Water depth: MW: 0.2 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 90 m Storage: 1 stockyard 1800 sqm Remarks: None		
232 Bridge	WT 422648	448.7	Crossing: Oder river Description: Highway; width 6.6 n Length: 384 m Type: Steel lattice thru type No. & length of spans: 10 @ Unknown Capacity: Unknown Water gap: 144 m Navigable underbridge clearance: Hz: 1 @ 55 m Vt: 3.91 m Remarks: None EIC H1 P10		
233 Port	WT 421649	448.7	Town: Tschicherzig Water depth: MW: 0.6-0.8m LW: Unknown Loading and unloading equipment: Unknown Wharfage: 70 m Storage: 1 stockyard 8800 sqm Remarks: Fresh water supply		
234 Port	WT 414652	449.7	Town: Tschicherzig Water depth: MW: 3.5 m; LW: Unknown Loading and unloading equipment: 1-2.5 ton crane Wharfage: 334 m; harbor area 31,700 sqm Storage: sheds 30,555 cu m Remarks: Fresh water supply		

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Oder River	Study Route # V			
No.	Item	UTM	km	Remarks
235	Port	WT 395651	451.5	Town: None Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 50 m Storage: 1 stockyard 3200 sqm Remarks: None
236	Port	WT 381651	453.0	Town: None Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 70 m Storage: 1 stockyard 6200 sqm Remarks: None
237	Bridge	WT 355658	455.6	Crossing: Oder river Description: Railway; 2 tracks Length: Unknown Type: Steel lattice girder No. & length of spans: Unknown Capacity: Unknown Water gap: 80 m Navigable underbridge clearance: Hz: 2 @ 30 m Vt: 4.4 m Remarks: None EIC R2 P10
238	Port	WT 295678	463.2	Town: Gross Blumberg Water depth: MW: 1.5 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 50 m Storage: 1 stockyard 2800 sqm Remarks: None
239	Bridge	WT 248668	468.4	Crossing: Oder river Description: Railway; 2 tracks Length: 180-200 m Type: Steel lattice girder No. & length of spans: 6 @ 30 m Capacity: 250 tons Water gap: 70-80 m Navigable underbridge clearance: Hz: 1 @ 68 m Vt: 4.4 m Remarks: None EIC R1 P10 V.49

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Oder River	Study Route # V			
No.	Item	UTM	km	Remarks
240	Port	WT 243665	468.9	Town: None Water depth: MW: 0.9 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 50 m Storage: 1 stockyard 2200 sqm Remarks: None
241	Port	WT 208686	473.3	Town: Bindow Water depth: MW: 1.0 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 50 m Storage: 1 stockyard 3600 sqm Remarks: None
242	Port	WT 081669	490.7	Town: Grossen Water depth: MW: 2.3 m; LW: Unknown Loading and unloading equipment: 1-1.5 ton crane; 1-0.25 ton elevator Wharfage: 220 m; harbor area 13,800 sqm Storage: 4 sheds 1457 cu m Remarks: None
243	Bridge	WT 068668	492.0	Crossing: Oder river Description: Highway Length: 150-160 m Type: Steel thru lattice girder No. & length of spans: 3 @ Unknown Capacity: 100 tons Water gap: 135 m Navigable underbridge clearance: Hz: 1 @ 66 m Vt: 3 m Remarks: None EIC H1 P9
244	Port	WT 064568	492.4	Town: Grossen Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: Winter harbor

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Oder River	Study Route #	V	No.	Item	UTM	km	Remarks
245	Plant	WT 056670	493.2				Remarks: Slipway and shipbuilding plant
246	Port	WT 026687	496.9	Town: None Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 30 m Storage: 1 stockyard 1500 sqm Remarks: None			
247	Port	WT 00986883	498.5	Town: None Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 20 m Storage: 1 stockyard 18,000 sqm Remarks: None			
248	Port	VT 936666	507.2	Town: Rollenzig Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: Winter refuge			
249	Port	VT 901694	511.8	Town: Schonfeld Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 50 m Storage: 1 stockyard 2300 sqm Remarks: None			
250	Port	VT 83156911	520.4	Town: Ratzdorf Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: 1 stockyard 900 sqm Remarks: None			
251	Shipyard	VT 83156911	520.4	Remarks: 5 slipways			

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Oder River	Study Route #	V	No.	Item	UTM	km	Remarks
252	Port	VT 815715	523.4	Town: None Water depth: MW: 1.6 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 150 m; harbor area 7000 sqm Storage: 1 stockyard 1800 sqm Remarks: None			
253	Port	VT 814717	523.6	Town: None Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 140 m Storage: 1 stockyard 3900 sqm Remarks: None			
254	Port	VT 786737	527.2	Town: None Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 60 m Storage: 1 stockyard 800 sqm Remarks: None			
255	Bridge	VT 78257655	530.2	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 103.5 m Vt: 6.8 m Remarks: None EIC HL P9			
256	Port	VT 782769	530.5	Town: Kloppitz Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 140 m Storage: 1 stockyard 480 sqm Remarks: None			

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Oder River	Study Route #	V	km	Remarks
No.	Item	UTM		
257	Port	VT 808675	542.7	Town: None Water depth: MW: 2.1 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown; harbor area 6400 sqm Storage: Unknown Remarks: None
258	Port	VT 800883	543.7	Town: Aurith Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 15 m Storage: 1 stockyard 100 sqm Remarks: None
259	Storage area	VT 798890	544.3	Remarks: Stockyards 69380 sqm
260	Port	VT 797892	544.7	Town: None Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 250 m Storage: 1 stockyard 42,500 sqm Remarks: None
261	Port	VT 796893	544.9	Town: None Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: Harbor for 4 empty ships
262	Port	VT 795895	545.0	Town: None Water depth: MW: 1.9 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 186 m; harbor area 4000 sqm Storage: 1 stockyard 60,000 sqm Remarks: None

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Oder River	Study Route #	V	km	Remarks
No.	Item	UTM		
263	Port	VT 791898	545.5	Town: None Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 60 m Storage: 1 stockyard 22,000 sqm Remarks: None
264	Storage area	VT 763906	548.3	Remarks: 1 stockyard 11,000 sqm
265	Safety harbor	VT 711935	554.7	Remarks: Harbor for 250-350 vessels
266	Storage area	VT 718951	556.55	Remarks: 1 stockyard 600 sqm
267	Port	VT 719952	556.6	Town: Schwetig Water depth: MW: 1.7 m; LW: Unknown Loading and unloading equipment: Unknown Storage: Unknown Wharfage: 40 m; harbor area 14,000 sqm Remarks: None
268	Bridge	VT 712965	558.0	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H2 N9
269	Bridge	VT 712971	558.5	Crossing: Oder river Description: Railway; 2 tracks Length: 445 m Type: Steel lattice girder No. & length of spans: 1 @ 80 m; 9 @ 40 m Capacity: Unknown Water gap: 225 m Navigable underbridge clearance: Hz: 1 @ 76 m Vt: 4.1 m Remarks: None EIC R6 N9

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Oder River	Study Route #	V	No.	Item	UTM	km	Remarks
270 Storage Point	VU 69950004	562.0					Remarks: 1 stockyard 2500 sqm; bulk storage 11,000 sqm
271 Bridge	VU 699001	562.1					Crossing: Oder river Description: Railway Length: 243.84 m Type: Concrete beam and lattice girder No. & length of spans: 6 @ 30.48 m; 1 @ 39.62 m Capacity: Unknown Water gap: 225 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R8 N9
272 Bridge	VU 697003	562.2					Crossing: Oder river Description: Highway Length: 301.5 m Type: Wood thru truss @ steel welded girder; steel I beam No. & length of spans: 1 @ 31.5 m; 10 @ 20 m; 3 @ 10 m; 2 @ 5 m Capacity: 20 tons Water gap: 110 m Navigable underbridge clearance: Hz: Unknown Vt: 6.48 m Remarks: None EIC H10 N9
273 Bridge	VU 697004	562.4					Crossing: Oder river Description: Highway Length: Unknown Type: Wood No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H9 N9

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Oder River	Study Route #	V	No.	Item	UTM	km	Remarks
274 Port	VU 7000	562.9					Town: Frankfurt a.Oder Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: 1-5 ton crane; 1-3 ton crane; 2-2 ton cranes Wharfage: 630 m Storage: 2 stockyards 500 sqm; 4 sheds 4110 cu m Remarks: Fresh water supply
275 Port	VU 695018	563.9					Town: Frankfurt a.O. Water depth: MW: 2.2 m; LW: Unknown Loading and unloading equipment: 1 fixed elevator Wharfage: 700 m; harbor area 48,000 sqm Storage: Unknown Remarks: Fresh water supply
276 Port	VU 719111	575.2					Town: None Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 120 m Storage: 1 stockyard 1500 sqm Remarks: None
277 Critical Point	VU 736131	577.9					Remarks: Navigational danger due to low water level
278 City	VU 736131	582.0					Town: Goritz Remarks: None
279 Bridge	VU 74942578	592.9					Crossing: Oder river Description: Highway; width 8 m Length: 252 m Type: Steel X-type truss; steel bow-string; concrete beam No. & length of spans: 6 @ 42 m Capacity: Unknown Water gap: 150 m Navigable underbridge clearance: Hz: Unknown Vt: 6 m Remarks: None EIC H11 N9

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Oder River	Study Route #	V	No.	Item	UTM	km	Remarks
280 Bridge	VU 74802582	593.0	Crossing: Oder river Description: Railway; 2 tracks Length: 256 m Type: Steel thru truss; plate girder; thru modified pratt No. & length of spans: 1 @ 80 m; 3 @ 53.4 m; 1 @ 4.72 m; 1 @ 5.72 m Capacity: E 45 Water cap: 133 m Navigable underbridge clearance: Hz: Unknown Vt: 7.71 m Remarks: None EIC R9 N9				
281 Port	VU 745259	593.2	Town: Kliestrin Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: 1-3.5 ton crane Wharfage: 183 m Storage: 1 shed 5,600 cu m Remarks: None				
282 Port	VU 733282	596.0	Town: Drewitz Water depth: MW: 0.4m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 30 m Storage: Unknown Remarks: None				
283 Port	VU 63633585	608.6	Town: Kienitz Water depth: MW: 1.5 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 40 m Storage: Unknown Remarks: None				
284 Port	VU 6237	610.7	Town: Kienitz Water depth: MW: 2.6 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 300 m; harbor area 50,000 sqm Storage: Unknown Remarks: Winter port				

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Oder River	Study Route #	V	No.	Item	UTM	km	Remarks
285 Port	VU 603393	613.5	Town: Gr. Neusendorf Water depth: MW: 1.6 m; LW: Unknown Loading and unloading equipment: 1-2.5 ton crane; 1-4 ton crane; 1 electric elevator Wharfage: 220 m; harbor area 8000 sqm Storage: 1 stockyard 47 sqm Remarks: None				
286 Port	VU 581430	617.9	Town: Zellin Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 100 m Storage: Unknown Remarks: None				
287 Port	VU 544463	622.8	Town: Gutebiese Water depth: MW: 0.7 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 50 m Storage: Unknown Remarks: None				
288 Port	VU 543463	623.1	Town: Gutebiese Water depth: MW: 1.4 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 60 m Storage: Unknown Remarks: None				
289 Bridge	VU 49684940	628.7	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: N/A Capacity: N/A Water cap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: N/A Remarks: Destroyed EIC H3 MS				

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Oder River Study Route # V May 1957

No.	Item	UTM	km	Remarks
290	Bridge	VU 477519	631.8	Crossing: Oder river Description: Railway; 1 track Length: 338.4 m Type: Steel thru truss No. & length of spans: 4 @ 36.5 m; 1 @ 37 m; 1 @ 91 m; 1 @ 64 m Capacity: Unknown Water gap: 340 m Navigable underbridge clearance: Hz: Unknown Vt: 4.7-5.4 m Remarks: None EIC R2 M8
291	Bridge	VU 47735194	631.81	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: N/A Capacity: N/A Water gap: Unknown Navigable underbridge clearance: Hz: N/A Vt: N/A Remarks: Destroyed EIC H2 M8
292	Port	VU 453528	634.4	Town: Rudnitz Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 100 m Storage: Unknown Remarks: None
293	Port	VU 428533	637.0	Town: None Water depth: MW: 0.5 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 40 m Storage: Unknown Remarks: None

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No.	Item	UTM	km	Remarks
294	Port	VU 410546	639.4	Town: Altoustrinchen Water depth: MW: 0.5 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 50 m Storage: Unknown Remarks: None
295	Bridge	VU 410554	640.2	Crossing: Oder river Description: Railway Length: 222.6 m Type: Steel thru warren No. & length of spans: 2 @ 68.6 m; 1 @ 85 m Capacity: Unknown Water gap: 200 m Navigable underbridge clearance: Hz: Unknown Vt: 6.7 m Remarks: None EIC R3 M8
296	Bridge	VU 411555	640.3	Crossing: Oder river Description: Highway Length: 222.6 m Type: Steel thru warren No. & length of spans: 2 @ 68.8 m; 1 @ 85 m Capacity: 80 tons Water gap: 200 m Navigable underbridge clearance: Hz: Unknown Vt: 6.7 m Remarks: None EIC H6 M8
297	Port	VU 412556	640.5	Town: Altoustrinchen Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 40 m; harbor area 1400 sqm Storage: Unknown Remarks: None

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Oder river Study Route # V

No.	Item	UTM	km	Remarks
298	Bridge	VU 412557	640.5	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H5 M8
299	Port	VU 414560	640.9	Town: Niederwutzen Water depth: MW: 1.3 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 115 m; harbor area 8000 sqm Storage: Unknown Remarks: None
300	Port	VU 425657	651.3	Town: Hohenbellinchen Water depth: MW: 1.8 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 550 m; harbor area 30,000 sqm Storage: Unknown Remarks: Security harbor
301	Port	VU 467704	659.42	Town: Peetzig Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 195 m Storage: Unknown Remarks: Loading point for wood
302	Bridge	VU 53937652	668.4	Crossing: Oder river Description: Highway; width 10 m Length: 250 m Type: Steel thru truss No. & length of spans: 4 @ Unknown Capacity: 70 tons Water gap: 200 m Navigable underbridge clearance: Hz: Unknown Vt: 8 m Remarks: None EIC H4 M8 V.61

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Oder River Study Route # V

No.	Item	UTM	km	Remarks
303	Port	VU 542767	668.7	Town: Nieder Kramig Water depth: MW: 1 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 95 m; harbor area 14,000 sqm Storage: Unknown Remarks: None
304	City	VU 565789	671.9	Town: Neundamm Remarks: Sawmill
305	Port	VU 577817	674.9	Town: Nipperwiese Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 152 m Storage: Unknown Remarks: None
306	Bridge	VU 57708202	675.31	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H1 M9
307	Port	VU 589872	680.9	Town: Flidichow Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 90 m Storage: Unknown Remarks: None
308	Port	VU 592889	682.4	Town: Marienhof Water depth: MW: 2.0 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 40 m; harbor area 800 sqm Storage: Unknown Remarks: Supply stop V.62

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Oder River	Study Route #	V		
No.	Item	UTM	km	Remarks
309 Port	VU 605920	685.8	Town: Marwitz Water depth: MW: 2.0; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown; harbor area 5600 sqm Storage: Unknown Remarks: Safety harbor	
310 City	VU 605922	686.0	Town: Marwitz Remarks: Piers for regular ships	
311 Port	VU 653998	695.2	Town: None Water depth: MW: 3.5 m; LW: Unknown Loading and unloading equipment: 1-6 ton crane Wharfage: 105 m; harbor area 75,000 sqm Storage: Unknown Remarks: Winter harbor	
312 Bridge	VV 65500073	696.08	Crossing: Oder river Description: Highway; width 5 m Length: 247 m Type: Steel truss No. & length of spans: 1 @ 72 m; 1 @ 103 m; 1 @ 72 m Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 100.6 m Wts: 5.39 m Remarks: None EIC H5 L9	
313 Port	VV 656009	696.1	Town: Greifenhagen Water depth: MW: 2.0 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 460 m; harbor area 1400 sqm Storage: 1 stockyard 4000 sqm 2 sheds 9454 cu m Remarks: None	

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Oder River	Study Route #	V		
No.	Item	UTM	km	Remarks
314 City	VV 665048	700.3	Town: Mouchkappe Remarks: Piers for regular ships	
315 City	VV 681083	704.3	Town: Bienenwerder Remarks: Piers for regular ships	
316 Bridge	VV 688097	705.85	Crossing: Oder river Description: Highway Length: 225 m Type: Steel plate girder No. & length of spans: 2 @ 63 m; 1 @ 99 m Capacity: Unknown Water gap: 195 m Navigable underbridge clearance: Hz: 1 @ 95 m Vt: 11.44 m Remarks: None EIC H4 L9	
317 Bridge	VV 69201515	712.37	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H3 L9	
318 Bridge	VV 692152	712.38	Crossing: Oder river Description: Railway; 1 track Length: 165-200 m Type: Steel lattice girder No. & length of spans: 3 @ Unknown Capacity: Unknown Water gap: 160 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R5 L9	

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Oder River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
319 Port	VV 694153	712.48	Town: None Water depth: MW: 5.5 m; LW: Unknown Loading and unloading equipment: 1-5 ton crane Wharfage: 150 m Storage: 1 stockyard 33,900 sqm Remarks: None	
320 Port	VV 697164	713.62	Town: Pommerensdorf Water depth: MW: 3.0 m; LW: Unknown Loading and unloading equipment: 3 loading devices Wharfage: 800 m; harbor area 21,000 sqm Storage: 1 stockyard 2000 sqm Remarks: None	
321 Port	VV 700172	714.62	Town: Pommerensdorf Water depth: MW: 3.0 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown; harbor area 16,000sqm Storage: Unknown Remarks: 2 harbors	
322 Port	VV 700175	714.82	Town: Stettin Water depth: MW: 3.0 m; LW: Unknown Loading and unloading equipment: 1-2 ton crane Wharfage: 210 m; harbor area 14,500 sqm Storage: 1 stockyard 2000 sqm; 2 sheds 12,000 cu m Remarks: None	
323 Port	VV 70031765	715.02	Town: Stettin Water depth: MW: 2.7 m; LW: Unknown Loading and unloading equipment: 2-2.5 ton cranes Wharfage: 180 m; harbor area 10,500 sqm Storage: 1 stockyard 10,000 sqm Remarks: None	

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Oder River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
324 Port	VV 700179	715.37	Town: Stettin Water depth: MW: 2.5 m; LW: Unknown Loading and unloading equipment: 1-5 ton crane Wharfage: 460 m; harbor area 10,000 sqm Storage: 1 stockyard 23,000 sqm Remarks: None	
325 Port	VV 699181	715.51	Town: Stettin Water depth: MW: 2.0 m; LW: Unknown Loading and unloading equipment: 1-1.5 ton crane Wharfage: 85 m; harbor area 1300 sqm Storage: 1 shed 2300 cu m Remarks: None	
326 Port	VV 699182	715.52	Town: Stettin Water depth: MW: 2.5 m; LW: Unknown Loading and unloading equipment: 1-3.5 ton crane Wharfage: Unknown Storage: 1 stockyard 12,000 sqm Remarks: None	
327 Shipyard	VV 700184	715.72	Remarks: 2 slipways; repair shop	
328 Port	VV 702187	716.12	Town: Stettin Water depth: MW: 3.0 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 170 m Storage: 1 stockyard 10,000 sqm; 1 shed 480 cu m Remarks: None	
329 Port	VV 704189	716.52	Town: Stettin Water depth: MW: 6.0 m; LW: Unknown Loading and unloading equipment: 1 grain elevator Wharfage: 292 m Storage: 1 stockyard 2000 sqm Remarks: None	

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Oder-River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
330	Bridge	VV 704191	716.56	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: 171 m Navigable underbridge clearance: Hz: N/A Vt: N/A Remarks: Destroyed EIC H17 L9
331	Port	VV 706192	716.5	Town: Stettin Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 315 m Storage: 2 sheds 10,200 cu m Remarks: None
332	Bridge	VV 70551926	716.69	Crossing: Oder river Description: Railway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R4 L9
333	Bridge	VV 70651936	716.62	Crossing: Oder river Description: Highway Length: 111 m Type: Twin bailey No. & length of spans: Unknown Capacity: Unknown Water gap: 108 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H9 L9

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Oder River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
334	Port	VV 708194	716.92	Town: Stettin Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 275 m Storage: 1 shed 4500 cu m Remarks: None
335	Bridge	VV 70861950	717.21	Crossing: Oder river Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H40 L9
336	Bridge	VV 712199	717.75	Crossing: Oder river Description: Highway; width 12 m Length: 155 m Type: Steel bailey type No. & length of spans: 3 @ 45 m; 1 @ 20 m Capacity: Unknown Water gap: 125 m Navigable underbridge clearance: Hz: Unknown Vt: 5 m Remarks: None EIC H6 L9
337	Port	VV 714205	718.72	Town: Stettin Water depth: MW: 8.4 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 900 m Storage: 1 stockyard 8000 sqm Remarks: None

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Oder River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
338 Port	VV 719210	719.02	Town: Stettin Water depth: MW: 9 m; LW: Unknown Loading and unloading equipment: 2-2.5 ton cranes Wharfage: 375 m Storage: 1 shed 7800 cu m Remarks: 4 slipways, 2 docks	
339 Port	VV 721212	719.32	Town: Stettin Water depth: MW: 5.5 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 25 m Storage: 1 stockyard 1000 sqm Remarks: None	
340 Port	VV 722213	719.52	Town: Stettin Water depth: MW: 9.6 m; LW: Unknown Loading and unloading equipment: 2 movable grain chutes Wharfage: 200 m Storage: 1 warehouse 43,000 tons Remarks: None	
341 Port	VV 723214	718.82 719.82	Town: Stettin-Grabow to Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: 5 cranes; 2 floating cranes Wharfage: 270 m Storage: Unknown Remarks: 2 docks; 3 shipyards	
342 Port	VV 723219*	720.22	Town: Stettin Water depth: MW: 4.5 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 40 m Storage: 1 stockyard 1200 sqm Remarks: None	

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Oder River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
343 Port	VV 723220	720.27	Town: Stettin Water depth: MW: 2.2 m; LW: Unknown Loading and unloading equipment: 1-5 ton crane Wharfage: 116 m; harbor area 8000 sqm Storage: 2 stockyards 6000 sqm; 1 shed 720 cu m Remarks: None	
344 Port	VV 724222	720.37	Town: Stettin Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: 1 fixed draw crane Wharfage: 400 m; harbor area 11,900 sqm Storage: Unknown Remarks: None	
345 City	VV 7120	712.47 to 721.26	Town: Stettin Remarks: 2 sea shipyards; 2 river shipyards and several shipbuilding plants	
346 Port	VV 728231	721.42	Town: Stettin Water depth: MW: 3.5 m; LW: Unknown Loading and unloading equipment: 1 grain lift, Wharfage: 600 m; harbor area 5500 sqm Storage: 6 sheds 18,200 cu m Remarks: None	
347 Port	VV 729233	721.62	Town: Stettin Water depth: MW: 1 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 70 m; harbor area 500 sqm Storage: 2 stockyards 2000 cu m Remarks: None	
348 Port	VV 72962334	721.72	Town: Stettin Water depth: MW: 3.5 m; LW: Unknown Loading and unloading equipment: 1-5 ton crane; 1-4 ton unloading bridge; 1-3 ton crane Wharfage: 340 m; harbor area 4000 sqm Storage: 1 stockyard 7500 sqm 2 sheds 12,400 cu m Remarks: None	

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Oder River	Study Route #	V	May 1957	
No.	Item	UTM	km	Remarks
349 Port	VV 73042350	721.92	Town: Stettin Water depth: MW: 5.5 m; LW: Unknown Loading and unloading equipment: 1-3 ton cranes Wharfage: 360 m; harbor area 2400 sqm Storage: 1 stockyard 3500 sqm; 3 sheds 30,000 cu m Remarks: None	
350 Port	VV 733239	722.32	Town: Stettin Water depth: MW: 0.5 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 130 m; harbor area 700 sqm Storage: 1 stockyard 800 sqm Remarks: None	
351 Port	VV 742257	724.52	Town: Frauendorf Water depth: MW: 3.0 m; LW: Unknown Loading and unloading equipment: 6-1 ton cranes; 1-1.5 ton crane; 2-4.5 ton cranes; 4-1.4 ton cranes Storage: 2 stockyards 43,000 sqm; 2 sheds 1800 cu m Wharfage: 685 m; harbor area 5600 sqm Remarks: None	
352 Port	VV 744260	724.82	Town: Gotzlow Water depth: MW: 7.2 m; LW: Unknown Loading and unloading equipment: 2 electric grain conveyors; 1-1.5 ton crane Wharfage: Unknown Storage: 2 stockyards 36,000 sqm 3 sheds 22,700 cu m Remarks: None	
353 End	VV 758308	730.22	Remarks: End of study route; Oder river empties into the Damanscher Strom	

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West Oder Study Route # VA May 1957

The West Oder is a branch of the Oder river and flows north from VU 590006 to its confluence with the East Oder at VV 689138, a distance of 29.8 km. It is 30-40 m wide and has a controlled depth of 2.5 m. Barges with a 600 ton capacity can navigate this waterway. North of Gartz, the West Oder is not navigable because of debris and uncontrolled sanding.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	Beginning	VU 590886	0.0	Remarks: Start of West Oder
2	Port	VU 592955	7.6	Town: Gienapp Water depth: MW: 2.5 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 75 m Storage: Unknown Remarks: None
3	Bridge	VU 595955	7.9	Crossing: West Oder Description: Highway Length: Unknown Type: Unknown No.& length of spans: Unknown Water gap: Unknown Capacity: Unknown Navigable underbridge clearance: H: Unknown Vt: Unknown Remarks: Bridge destroyed
4	Port	VU 596956	7.5 to 8.5	Town: Gartz Water depth: MW: 3.0 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 230 m Storage: Unknown Remarks: None

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West Oder	Study Route #	VA	May 1957	
No.	Item	UTM	km	Remarks
5	Port	VU62209996	13.5	Town: Unknown Water depth: MW: 2.0 m; LW: Unknown Loading and unloading equipment: 2 bridge cranes Wharfage: 70 m Storage: Unknown Remarks: Cement factory
6	Port	VV 623003	14.5	Town: Mescherin Water depth: MW: 3.0 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 65 m Storage: Unknown Remarks: Piers for steamers
7	Bridge	VV 62850096	14.65	Crossing: West Oder Description: Highway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: Bridge under construction EIC H41 I9 SZG
8	Bridge	VV 667104	25.4	Crossing: West Oder Description: Highway Length: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: 129.6 m Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: Bridge destroyed EIC H41 I9 SZG
9	Oder river	VV 689136	29.8	Remarks: Confluence of West Oder and East Oder

VA.2

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Dammscher See Study Route VB May 1957

The Dammscher See, a large lake located northeast of Szczecin, is 12.8 km long and 3.2 km wide. It serves as a bypass for river craft sailing to the Baltic without passing through the port of Szczecin.

The controlling depth is 3.2 m and it can accommodate vessels 60 m long, 8 meters wide and up to 600 tons bearing capacity. It is frozen approximately 60 days each year.

Because of the contours of the Dammscher See, a route log is not added; however, loading points are listed below.

No.	Item	UTM	km	Remarks
1	Loading point	VV 766166	N/A	Town: Fibelkorn Water depth: MW: 2.0 Loading and unloading equipment: Unknown Wharfage: 70 m Storage: 1 stockyard 2,500 sqm Remarks: None
2	Loading point	VV 779174	N/A	Town: Altdam Water depth: MW: 2.5 m Loading and unloading equipment: Unknown Wharfage: 30 m; basin area 4,200 sqm Storage: 2 stockyards 1,300 sqm Remarks: Repair ship; slipway & workshops
3	Loading point	VV 809238	N/A	Town: Bergland Water depth: MW: 2.5 m Loading and unloading equipment: Unknown Wharfage: 40 m long; basin area 800 sqm Storage: Unknown Remarks: Fresh water supply
4	Loading point	VV 803286	N/A	Town: Lubzin Water depth: Unknown Loading and unloading equipment: Unknown Wharfage: 80 m; basin area 3000 sqm Storage: 1 stockyard 1000 sqm Remarks: Fresh water supply

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Grosses Haff Study Route VC

May 1957

Grosses Haff is the Polish section of Szczecin Haff. It is important as a maritime lane for vessels traveling between Szczecin and the Baltic Sea. In addition, it provides access to the Niemen river, a route that would be very important since the route between Szczecin and the Baltic via Swinoujscie could very easily be blocked during war.

The lagoon has a dark gray mud bottom and can accommodate vessels with a draft of 2.4 meters. On an average, there is ice on the channel for 65 days each year, but navigation is never stopped.

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Dievenow River Study Route # VD

Grosses Haff (VV 735615) to Baltic Sea (VV 82248650)

The Dievenow river begins at the Grosses Haff and flows northeast to the Baltic Sea. It is 33 km long and is navigable along its entire course. From its mouth to Wollin, this river is navigable for ships 50 m long, 6.9 m wide and with a bearing capacity of 350 tons. For the remainder, it is navigable to vessels 55 m long, 7.4 m wide and with a bearing capacity of 350 tons.

It is reported that this waterway is to be deepened in 1957. In case of war, the main passageway between Szczecin and the Baltic could very easily be blocked. In such a case, this waterway could be used as a channel to the sea. In this respect, the waterway will be deepened to allow passage of the larger ships.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	Grosses Haff	VV 735615	0.0	Remarks: Beginning of study route
2	Bridge	VV 74956614	5.5	Crossing: Dievenow river Description: Highway; width 4.5 m Length: 110 m Type: Steel stringer No. & length of spans: 9 @ 12 m Capacity: 25 tons Water gap: 100 m Navigable underbridge clearance: Hz: 1 @ 13.1 m Vt: 2.5 m Remarks: None EIC H4 K9
3	Port	VV 749663	5.6	Town: Wollin Water depth: MW: 5.05 m; LW: 4.64 m Loading and unloading equipment: Unknown Wharfage: 260 m Storage: 1 grain silo 2500 cu m Remarks: None

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Dievenow River Study Route # VD

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No.	Item	UTM	km	Remarks
4	Bridge	VV 75056642	5.8	Crossing: Dievenow river Description: Highway Length: 150 m Type: Steel deck type girder No. & length of spans: 5 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H7 K9
5	Bridge	VV 75266675	6.1	Crossing: Dievenow river Description: Railway; 1 track Length: 226 m Type: Steel girder and truss No. & length of spans: 2 @ 18 m; 5 @ 38 m Capacity: E35 Water gap: 225 m Navigable underbridge clearance: Hz: 2 @ 12.5 m Vt: 4.8 m Remarks: None EIC R1 K9
6	Port	VV 761721	8.5	Town: Alt Tonnin Water depth: MW: 1 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 35 m Storage: Unknown Remarks: None
7	Port	VV 788735	14.0	Town: Zebbin Water depth: MW: 1.3 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 38 m Storage: Unknown Remarks: None

VD.2

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Dievenow River Study Route # VD

No.	Item	UTM	km	Remarks
8	Port	VV 796782	19.5	Town: Zirzloff Water depth: MW: 1.5 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 55 m Storage: Unknown Remarks: None
9	Port	VV 81588040	22.1	Town: Bunnewitz Water depth: MW: Unknown; LW: Unknown Wharfage: Unknown Loading and unloading equipment: Unknown Storage: Unknown Remarks: None
10	Port	VV 80258160	22.9	Town: Zunz Water depth: MW: 2 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 40 m Storage: Unknown Remarks: None
11	Port	VV 848809	23.0	Town: Cammin Water depth: MW: 5.05 m; LW: 4.37 m Loading and unloading equipment: 1 electric crane Storage: 1 grain silo, 1 grain warehouse Wharfage: 380 m Remarks: None
12	Port	VV 806837	24.0	Town: Heidebrink Water depth: MW: 2.5 m; LW: 2.15 m Loading and unloading equipment: Unknown Wharfage: 140 m Storage: 200 sqm Remarks: None

VD.3

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Dievenow River Study Route # VD May 1957

No.	Item	UTM	km	Remarks
13	Bridge	VV 84168649	30.86	Crossing: Dievenow river Description: Highway; width 4.5 m Length: 90 m Type: Tipherr No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H6 K9
14	Port	VV 84068652	30.9	Town: None Water depth: MW: 2.5 m; LW: 2.05 m Loading and unloading equipment: Unknown Wharfage: 120 m Storage: Unknown Remarks: 2 small fish harbors
15	Bridge	VV 83508605	31.8	Crossing: Dievenow river Description: Highway Length: 200 m Type: Steel No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 8 m Remarks: None EIC H8 K9
16	Port	VV 83428589	32.1	Town: None Water depth: MW: 2 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: 28 m Storage: Unknown Remarks: 2 loading bridges

VD.4

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WATERWAYS, POLAND May 1957

No.	Item	UTM	km	Remarks
17	Port	VV 828660	32.7	Town: None Water depth: MW: 2.0 m; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Basin area 5,400 sqm Storage: Unknown Remarks: Fish and sport boat harbor
18	Port	VV 82558592	32.8	Town: None Water depth: MW: 2.0 m; LW: 1.55 m Loading and unloading equipment: Unknown Wharfage: Unknown; basin area 2100 sqm Storage: Unknown Remarks: Fish harbor
19	Baltic Sea	VV 82248650	33.4	Remarks: End of study route

VD.5

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Gliwicki Canal Study Route # VE

Gleiwitz (YS 342760) to Kozle (Cosel) (BA 9780)

The Gliwicki Canal connects the city of Gleiwitz and the upper Silesian industrial area with the Oder river at Kozle (Cosel). It is 42 km long with an average width of 40 to 50 m. The sides and bottom of the waterway are lined with rocks which are held together with clay. The depth varies from 1.8 to 2.5 m.

The navigability of the canal is good except for a 1 km section near Laband (CA 3181) where sand banks necessitate the use of 2 dredges working almost constantly.

In winter it freezes to a depth of 50-60 cm. In addition, during the summer the water level falls, making the route navigable only during the spring and fall.

There are six double locks. These are 74 m long and 12 m wide and can accommodate vessels up to 850 tons,

ROUTE LOG

No.	Item	UTM	kn	Remarks
1	Port	CA 317780	0.0	Town: Gleiwitz Water depth: MW: 2.5-2.8 m; LW: Unknown Loading and unloading equipment: 5-15.5 ton electric cranes; 1-5 ton portal crane; 1 locomotive rotary crane Wharfage: 4420 m Storage: Unknown Remarks: All quays served by rail
2	Lock	CA 30807928	2.0	Length: 74 m Width: 12 m Depth over sill: Unknown Material: Unknown No. & type of gates: 2 meter Lifts: 1 @ 4.1 m Cycle: 7 to 8 minutes Remarks: Twin parallel locks of equal dimensions EIC L3 S13

VE.1

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Gliwicki Canal Study Route # VE

No.	Item	UTM	km	Remarks
3	Bridge	CA 30757935	2.7	Crossing: Gliwicki Canal Description: Highway; width 3.6 m Length: 54 m Type: Bailey No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H31 S13
4	Bridge	CA 29948014	3.7	Crossing: Gliwicki Canal Description: Railway; 2 tracks Length: .60 m Type: Steel thru howe No. & length of spans: 1 @ 60 m Capacity: 250 tons Water gap: 50 m Navigable underbridge clearance: Hz: Unknown Vt: 4.5-6 m Remarks: Has demolition chambers 1.5 m over river EIC R2 S13
5	Bridge	CA 27108355	8.45	Crossing: Gliwicki Canal Description: Railway Length: 50 m Type: Re-concrete deck No. & length of spans: 2 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 3.6 m Remarks: None EIC R62 S13
6	Lock	CA 25458408	10.45	Length: 74 m Width: 12 m Depth over sill: Unknown Material: Unknown No. & type of gates: 2 caisson and tainter Lifts: 1 @ 10.3 m Cycle: 7-8 minutes Remarks: Twin locks of equal dimensions EIC L2 S13 VE.2

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Gliwicki Canal Study Route # VE

No.	Item	UTM	km	Remarks
7	Bridge	CA 19428484	13.45	Crossing: Gliwicki Canal Description: Highway; width 12 m Length: 50 m Type: Reinforced concrete arch No. & length of spans: 2 @ Unknown Capacity: 150 tons Water gap: 37 m Navigable underbridge clearance: Hz: Unknown Vt: 5 m Remarks: None EIC H8 S13
8	Lock	CA 16408402	19.70	Length: 74 m Width: 12 m Depth over sill: Unknown Material: Unknown No. & type of gates: 2 miter Lifts: 1 @ 6.2 m Cycle: 7-8 minutes Remarks: Twin locks of equal dimensions EIC L1 S13
9	Bridge	CA 156839	20.57	Crossing: Gliwicki Canal Description: Highway; width 8 m Length: 50 m Type: Wood No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 4 m Remarks: None EIC H3 S13
10	Lock	CA 10238445	26.09	Length: 74 m Width: 12 m Depth over sill: Unknown Material: Unknown No. & type of gates: 2 miter Lifts: 1 @ 6.2 m Cycle: 7-8 minutes Remarks: Twin locks of equal dimensions EIC L6 S12

VE.3

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Gliwicki Canal Study Route # VE

No.	Item	UTM	km	Remarks
11	Bridge	CA 07108268	29.84	Crossing: Gliwicki Canal Description: Highway Length: Unknown Type: Steel thru pratt No.& length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H19 S12
12	Port	CA 052815	32.09	Town: Blechhammer Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: Unknown Wharfage: Unknown Storage: Unknown Remarks: Can't anch canal
13	Lock	CA 03658167	33.46	Length: 74 m Width: 12 m Depth over sill: Unknown Material: Unknown No.& type of gates: 2 miter Heights: 1 @ 6.1 m Cycle: 7-8 minutes Remarks: Twin locks of equal dimensions EIC L7 S12
14	Bridge	CA 03788172	33.56	Crossing: Gliwicki Canal Description: Highway Length: Unknown Type: No.& length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H16 S12

VE.4

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No.	Item	UTM	km	Remarks
15	Bridge	CA 00188305	38.56	Crossing: Gliwicki Canal Description: Railway Length: Unknown Type: Unknown No.& length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC R16 S12
16	Lock	CA 0083	38.71	Length: 74 m Width: 12 m Depth over sill: Unknown Material: Unknown No.& type of gates: 2 caisson and tainter Heights: 1 @ 10.4 m Cycle: 7-8 minutes Remarks: Twin locks of equal dimensions EIC L5 S12
17	Bridge	BA 99908302	38.80	Crossing: Gliwicki Canal Description: Railway; 2 tracks Length: 60 m Type: Steel girder No.& length of spans: 1 @ 60 m Water gap: Unknown Capacity: Unknown Navigable underbridge clearance: Hz: Unknown Vt: 10 m Remarks: None EIC R10 S12
18	Bridge	BA 98098260	40.80	Crossing: Gliwicki Canal Description: Highway; width 8 m Length: 30 m Type: Concrete No.& length of spans: 5 @ Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: Unknown Vt: Unknown Remarks: None EIC H23 S12

VE.5

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Gliwicki Canal Study Route # VE

May 1957

No.	Item	UTM	km	Remarks
19	Port	BA 973825	41.50	Town: Kozle (Cosel) Water depth: MW: Unknown; LW: 1.2-1.7 m Loading and unloading equipment: 5 cranes; 12 electric coal tippers Wharfage: 1800 m Storage: Grain silo: 30X15X25 m Warehouse 30X10X5 m Warehouse 30X10X5 m Remarks: None
20	Oder river	BA 967827	42.15	Remarks: End of study route

WATERWAYS, POLAND

May 1957

Wolitzer See Study Route VI

Follusch See (XU 92255390) to Wolitzer See (XU 94766037)

The Wolitzer See is a waterway composed of lakes Follusch, Ostrowiec, Kierzkower, and Wolitzer. It is 10 km long and can accommodate vessels with a draft of 1.2 m. Additional information on channel characteristics is not available.

This waterway is exclusively used by sailing vessels and is not navigable from December to April because of ice.

ROUTE LOG

No.	Item	UTM	km	Remarks
1	Loading point	XU 90995279	0.0	Remarks: Bank 60 m long suitable for loading
2	Lake	XU 92255390	1.8	Name: Follusch Length: 1.8 km Width: 100-450 m Remarks: None
3	Lock	XU 92275400	1.95	Length: Unknown Width: Unknown Depth: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L1 M12
4	Lake	XU 90255466	2.76	Name: Ostrowiec Length: 5.4 km Width: 160-600 m Remarks: None
5	Port	XU 92025482	2.78	Town: Ostrowiec Water depth: MW: Unknown; LW: Unknown Loading and unloading equipment: 1-3 ton swing crane Wharfage: 60 m Storage: Unknown Remarks: None

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Wolitzer See Study Route VI

No.	Item	UTM	km	Remarks
6	Lock	XU 94025826	7.28	Length: 42 m Width: 5 m Depth over sill: Unknown Material: Unknown No. & type of gates: Unknown Lifts: Unknown Cycle: Unknown Remarks: None EIC L2 M12
7	Lake	XU 94295856	7.7	Name: Kierzkower Length: 2.3 km Width: 130-500 m Remarks: None
8	Lake	XU 94766037	10.0	Name: Wolitzer Remarks: None
9	Bridge	XU 94766037	10.0	Crossing: Wolitzer See Description: Railway Length: Unknown Type: Unknown No. & length of spans: Unknown Capacity: Unknown Water gap: Unknown Navigable underbridge clearance: Hz: 1 @ 7.7 m Vt: 2.9 m Remarks: This bridge separates the Wolitzer See and the Kierzkower See. End of Study route EIC R21, M12

VI.2

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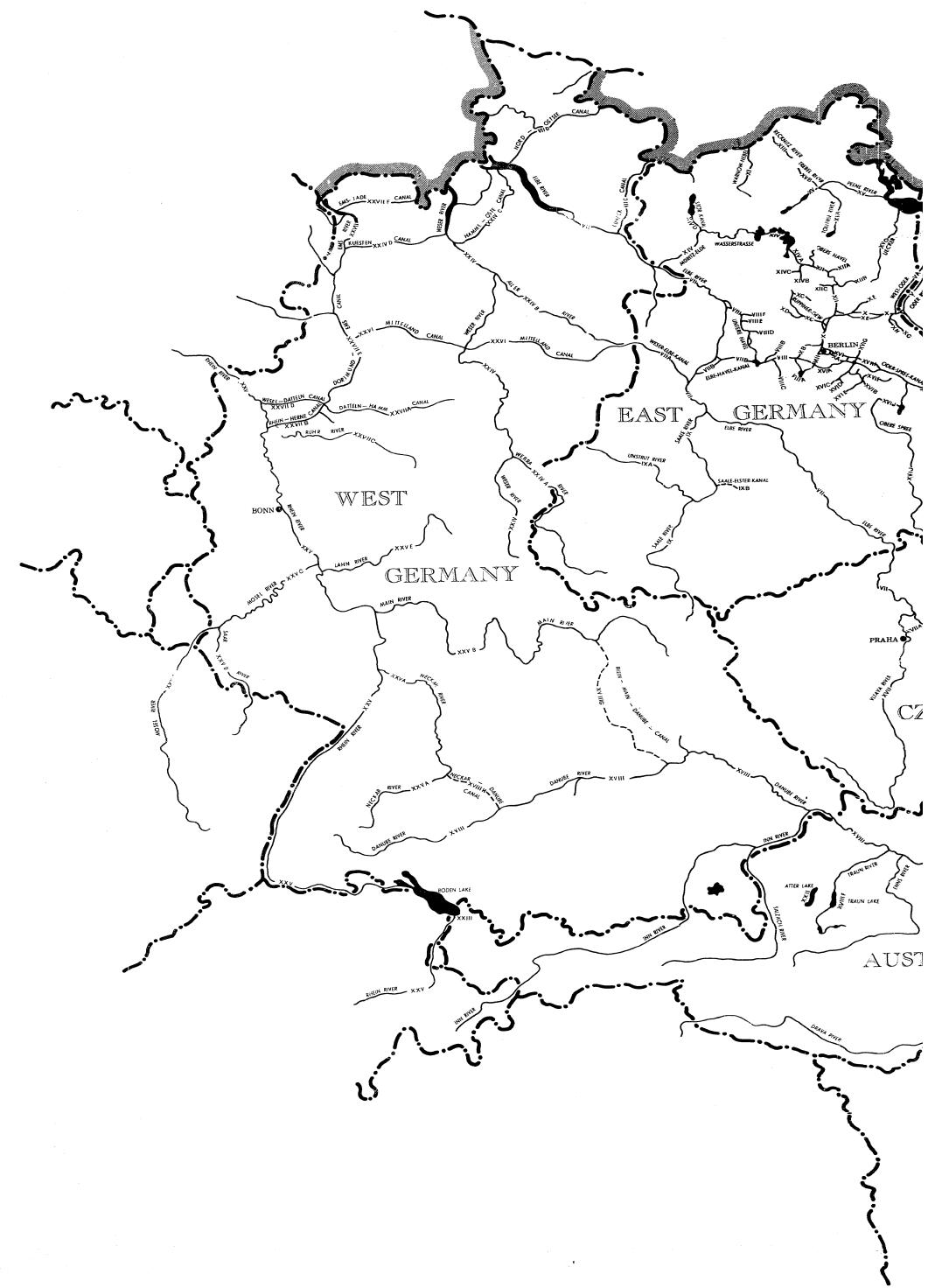
WATERWAYS CENTRAL EUROPE

INDEX OF STUDY ROUTES

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